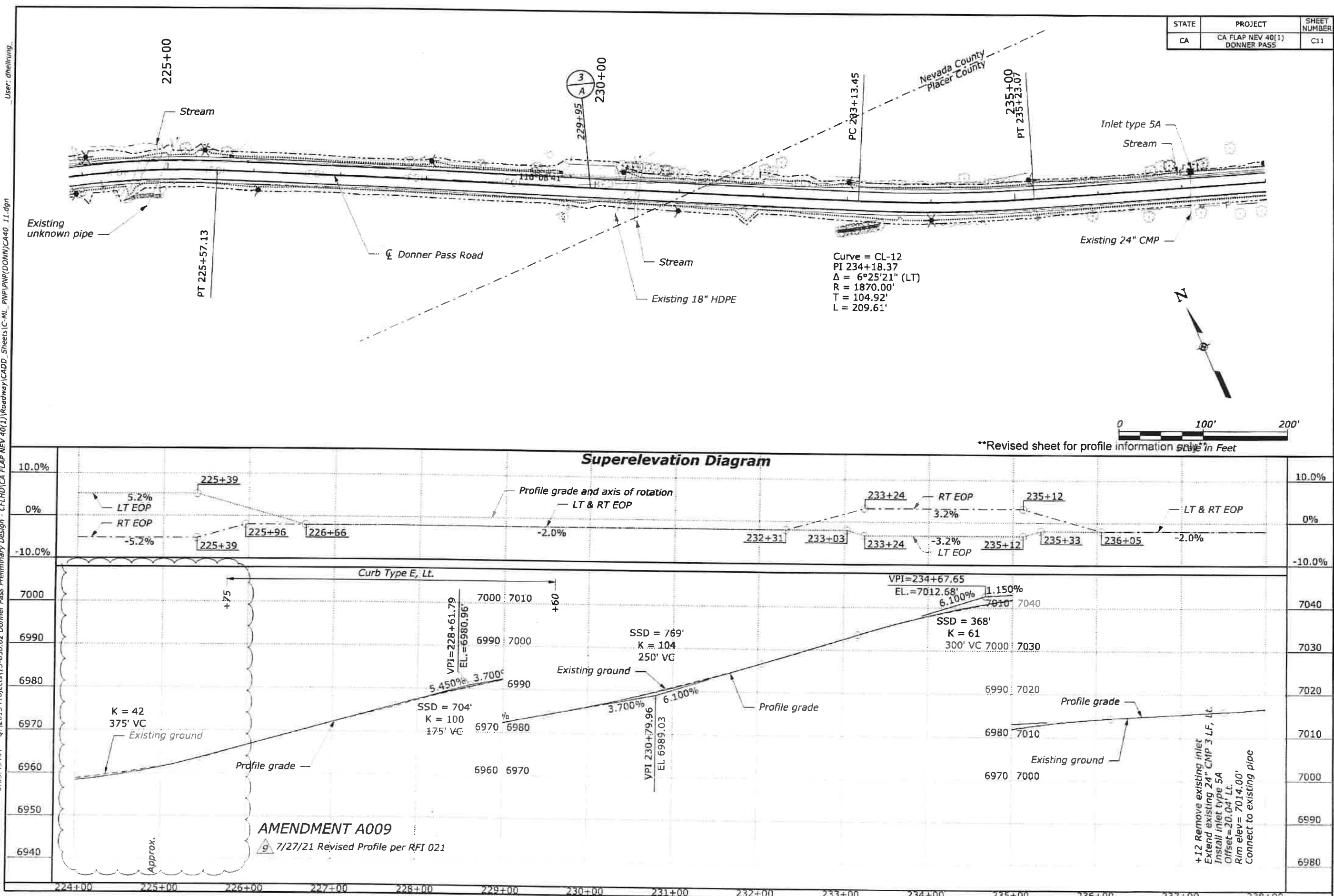


User: dthelung

9:55:49 AM Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - C-ML-PNP\PNP\DONN\CA40 11.dgn

7/27/2021

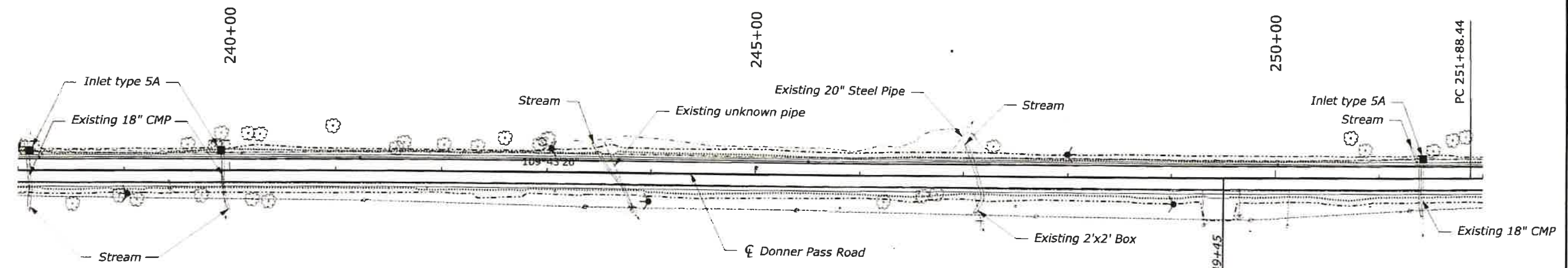


STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C11

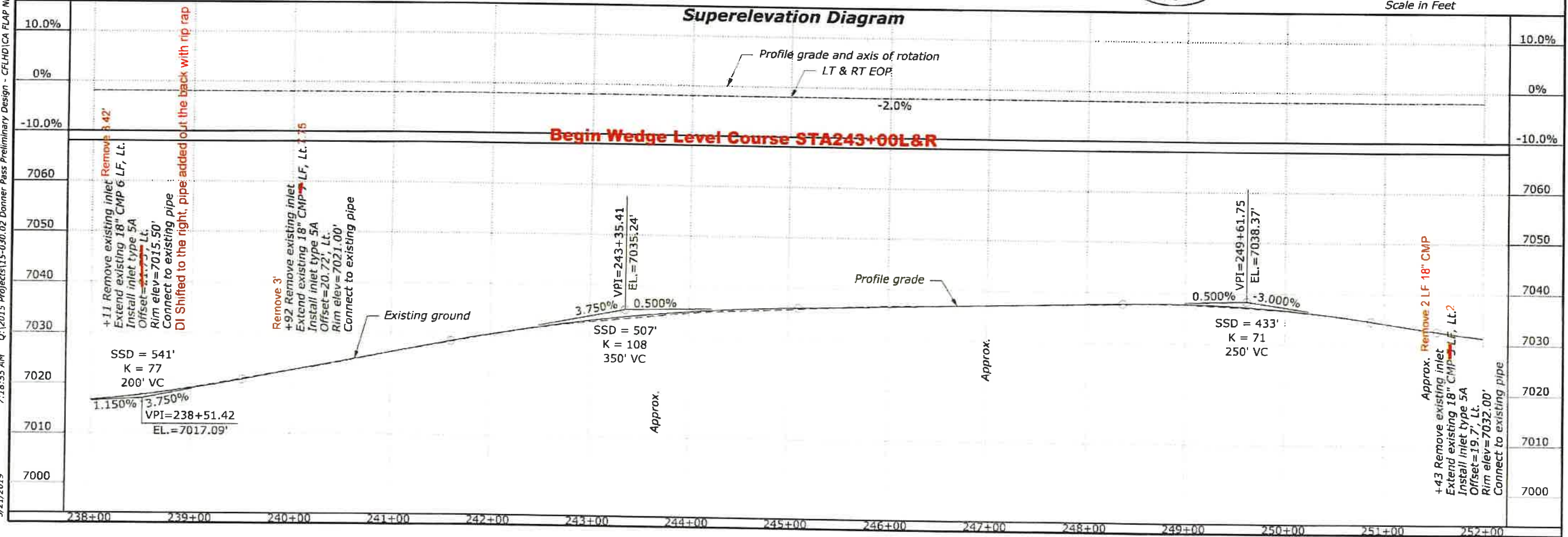
**Revised sheet for profile information only

3/21/2019 7:18:55 AM Q:\2015 Projects\15-030_02 Donner Pass Preliminary Design - CFL\HDCA FLAP NEV 40(1) Roadway\ICADD_Sheets\C-ML_PNP\PNP(DONN)CA140_12.dgn User: mcarlson

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C12

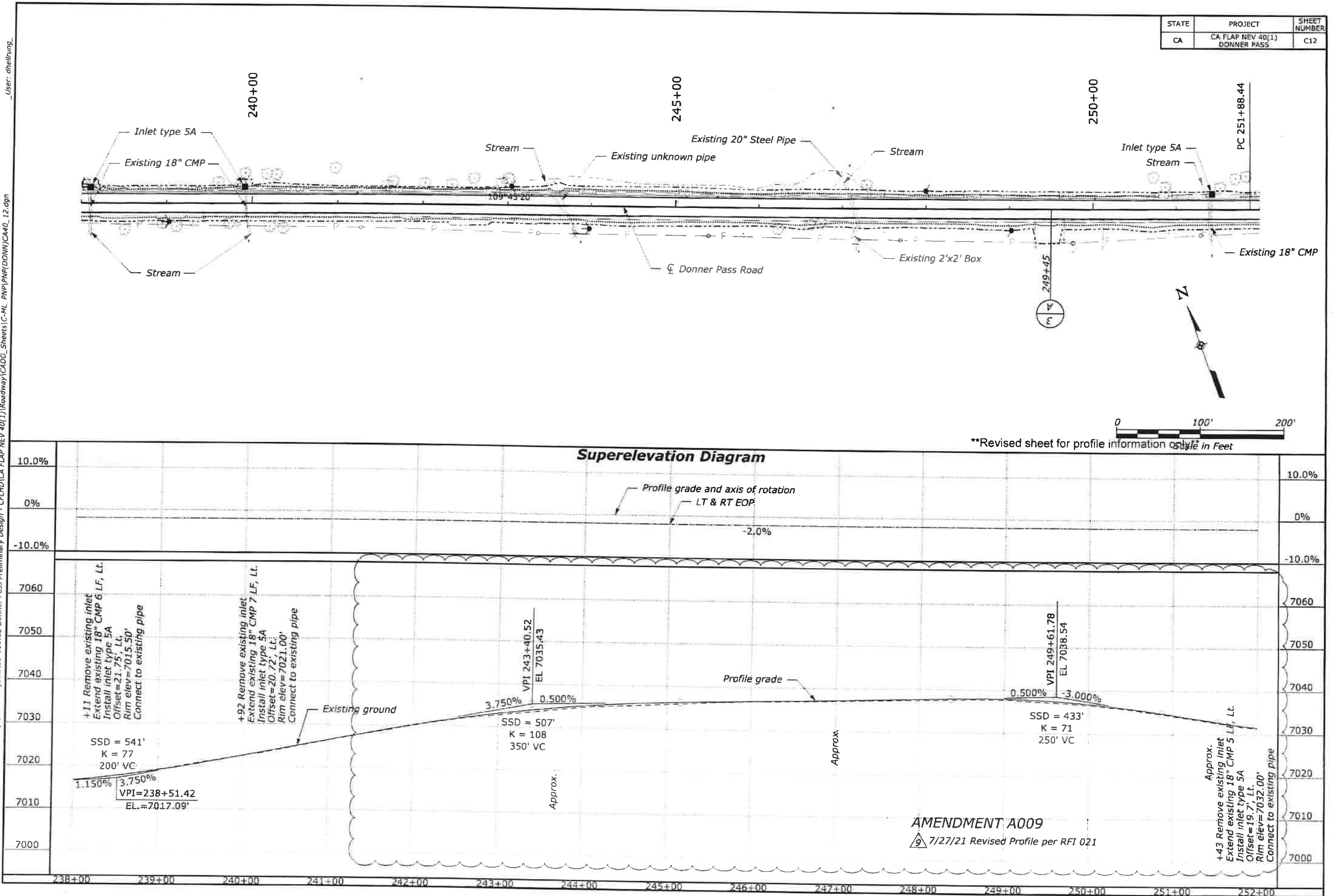


Superelevation Diagram



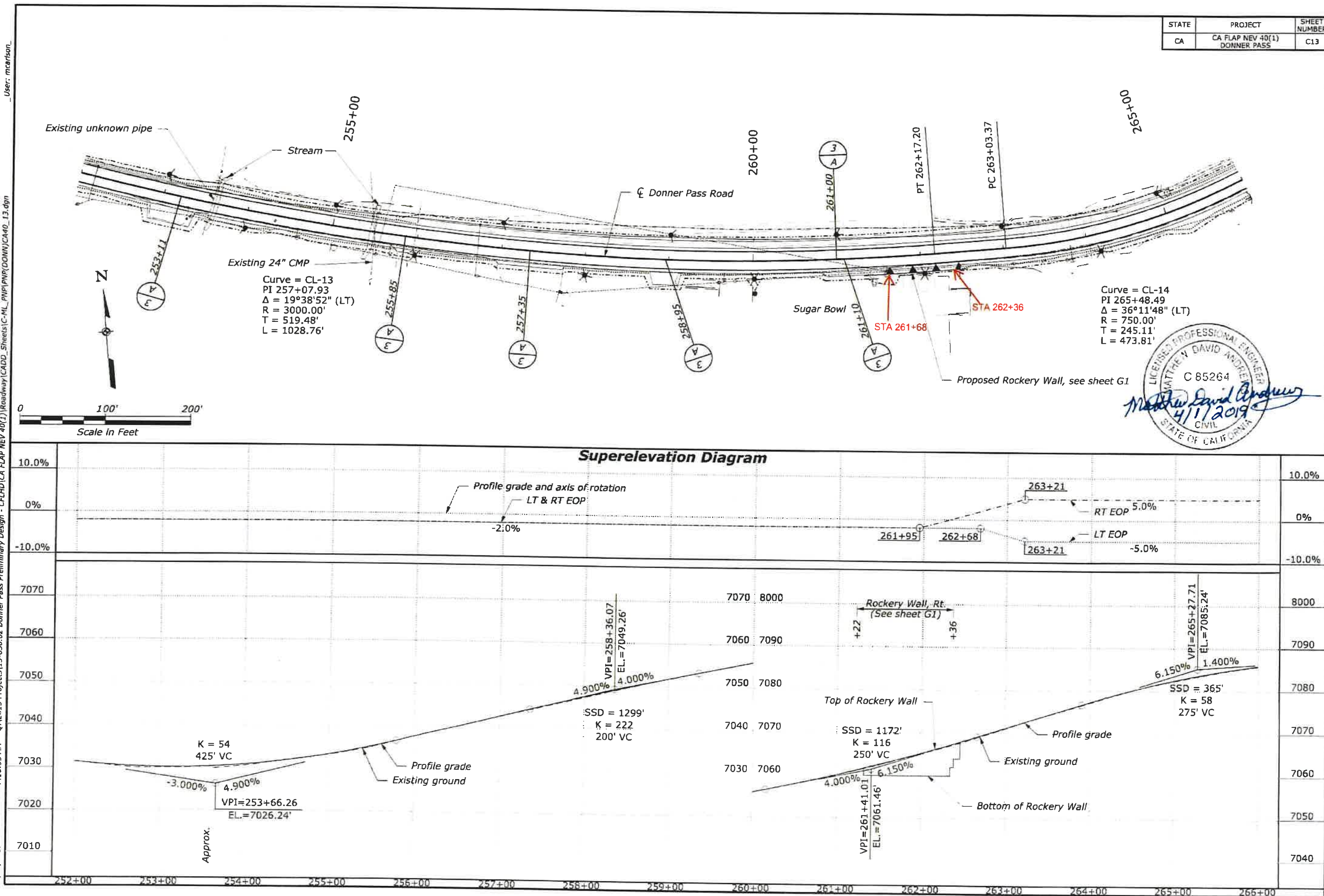
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7/27/2021 9:57:17 AM Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - C:\HD\CA FLAP NEV 40(1)\Roadway\CADD_Sheets\C-M_L_P\PI\PI\DONN\CA40_12.dgn



User: mcarlson

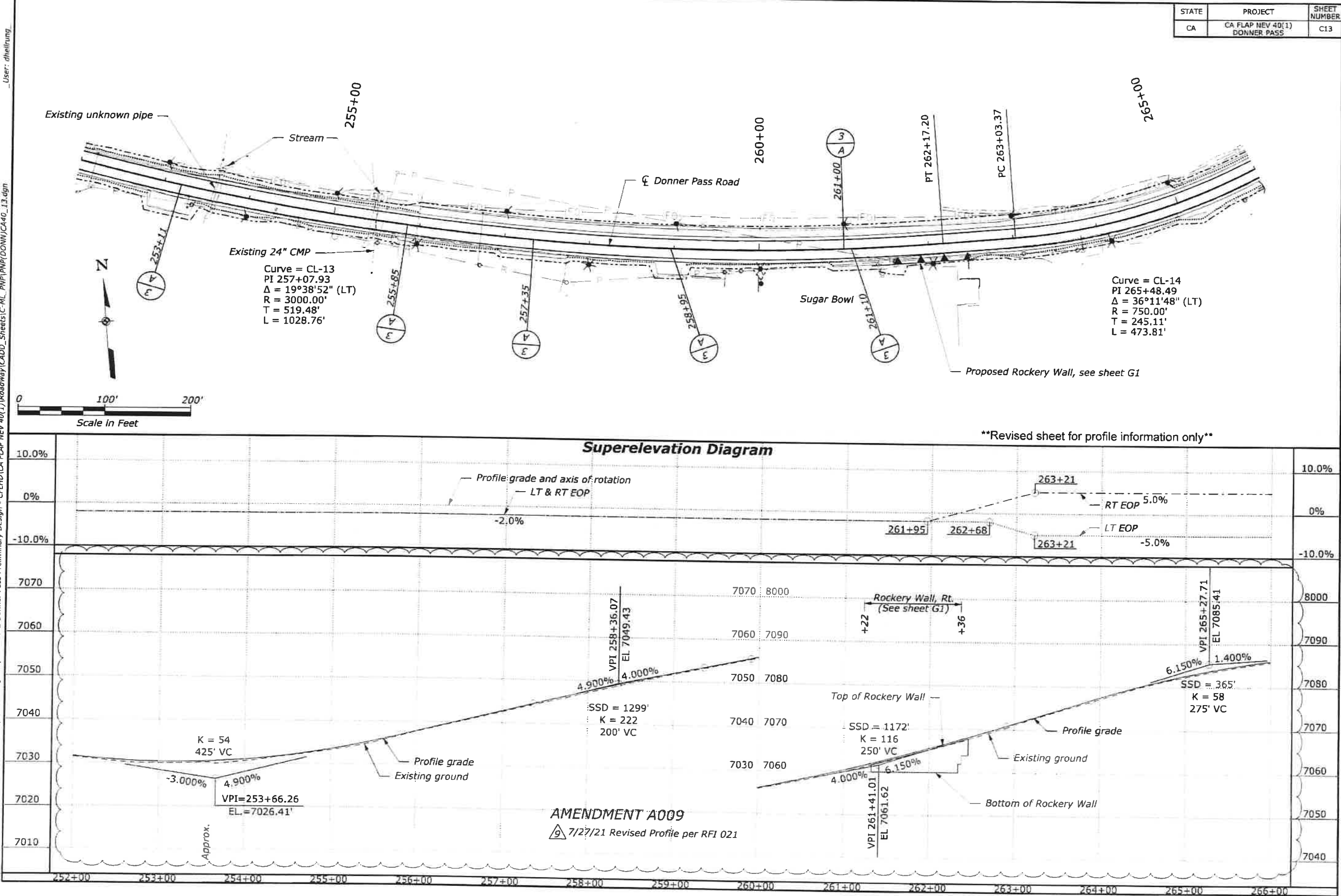
3/21/2019 7:18:55 AM Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - C:\HD\CA FLAP NEV 40(1) Roadway\CADD_Sheets\C-M\PNP\PNP\DONNER\CA40_13.dgn



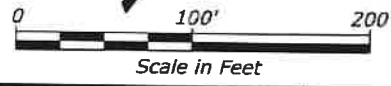
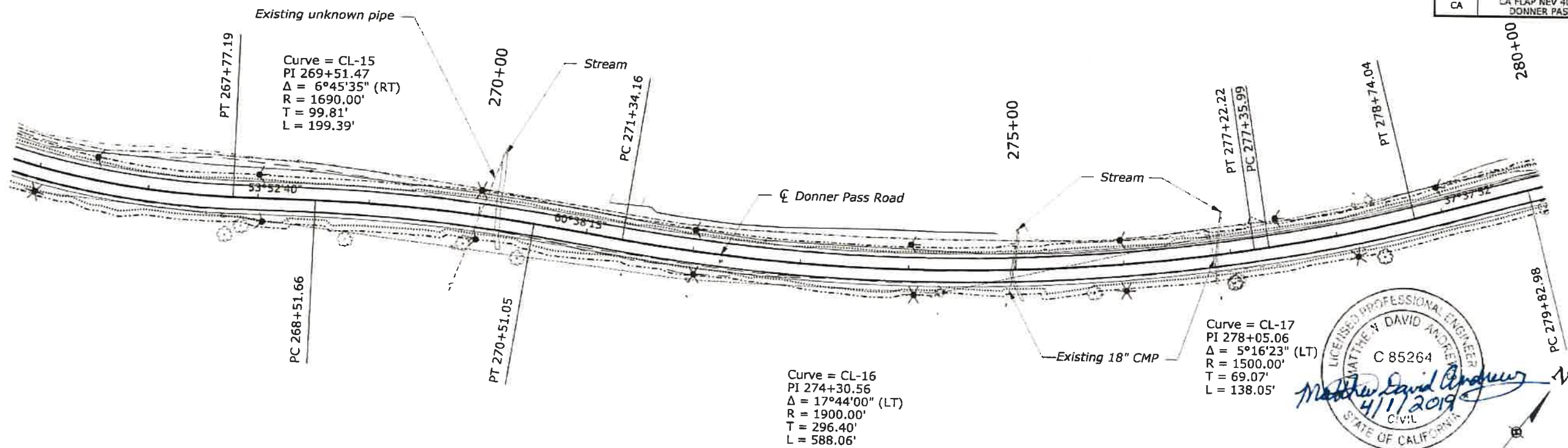
User: dtheilung

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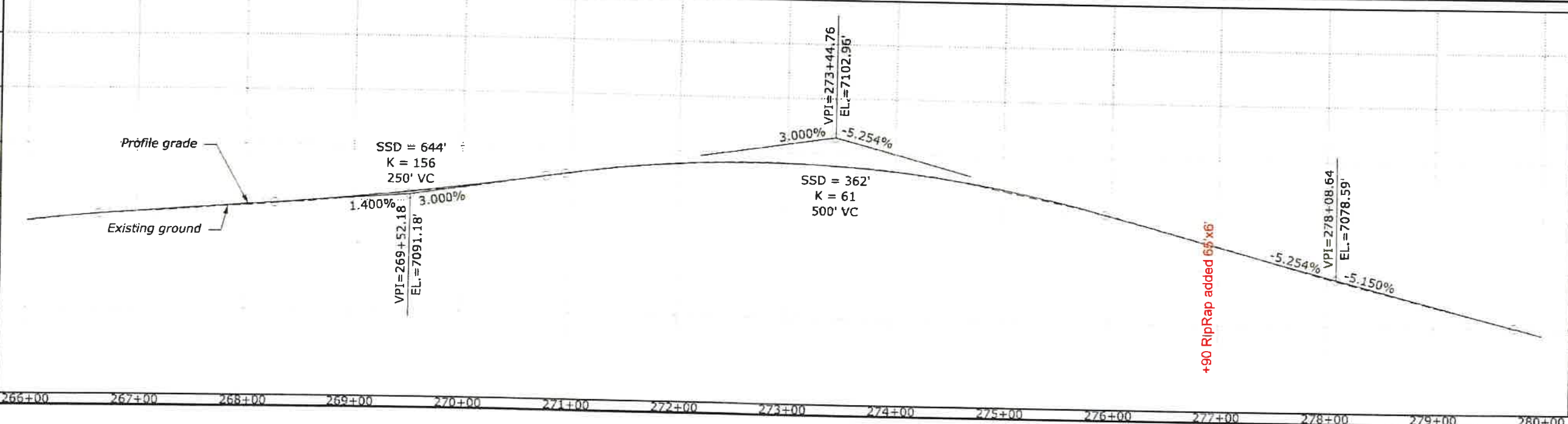
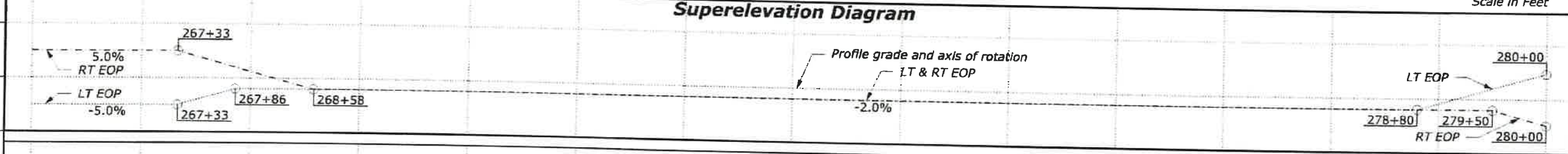
7/27/2021



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C14



Superelevation Diagram



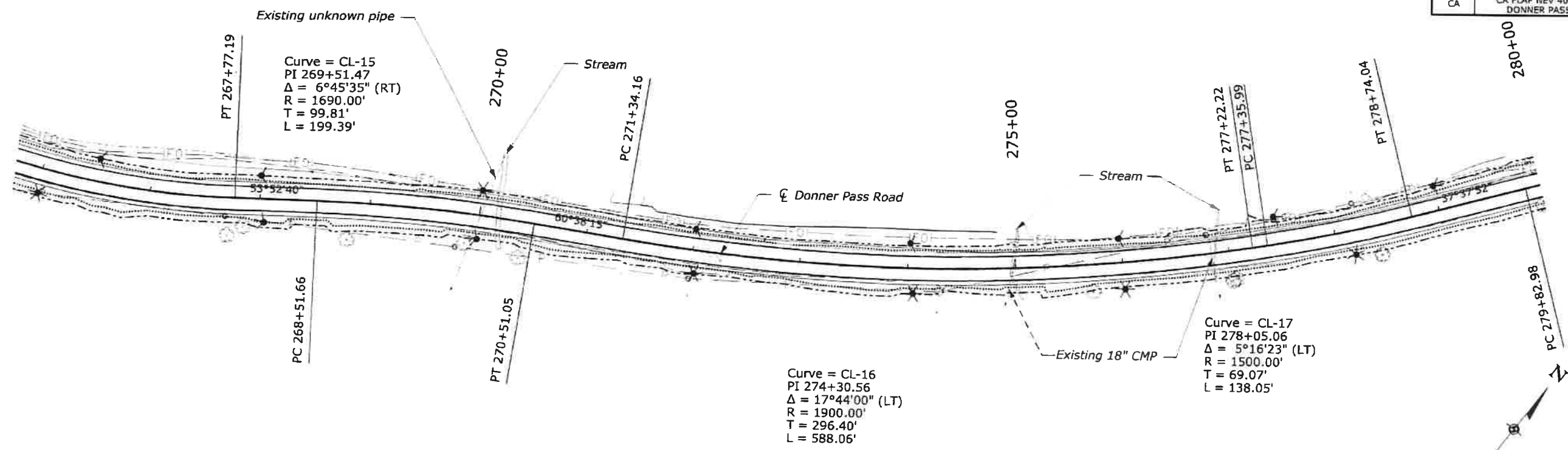
+90 RipRap added 6'x6'

User: dthlring

Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - CFLHD\CA FLAP NEV 40(1)\Roadway\CADD_Sheets\CA-ML_PNP\PNP(DOWN)CA40_14.dgn

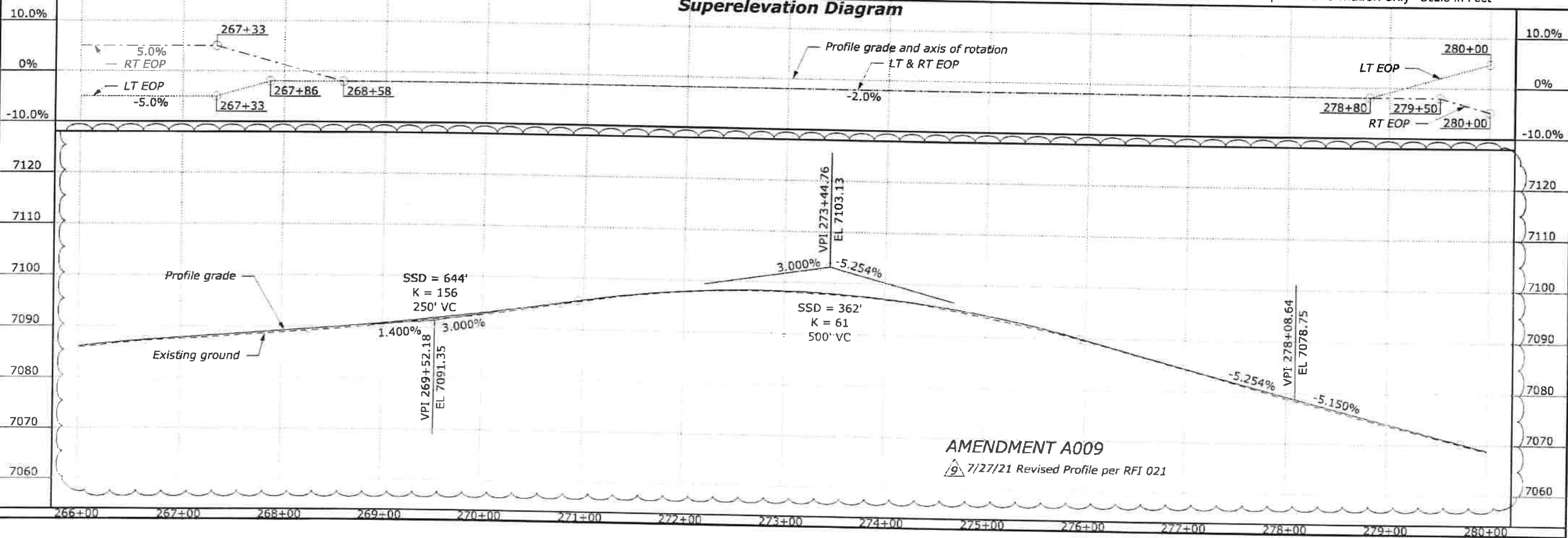
7/27/2021

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C14



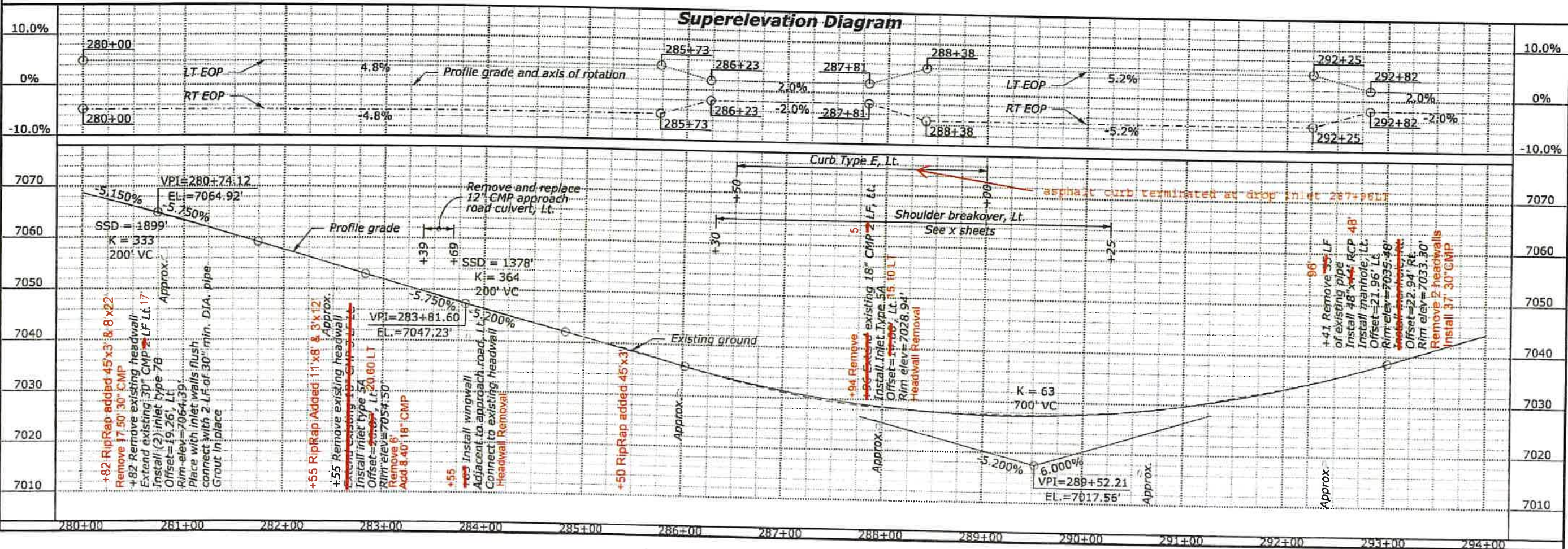
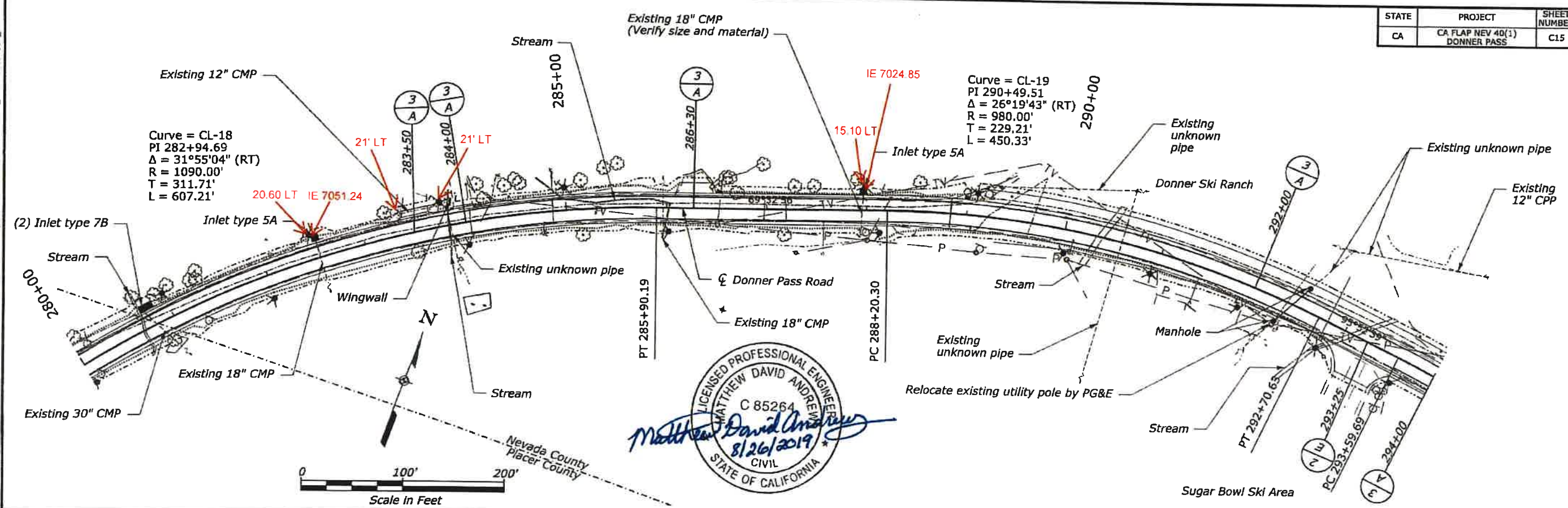
Revised sheet for profile information only Scale in Feet

Superelevation Diagram



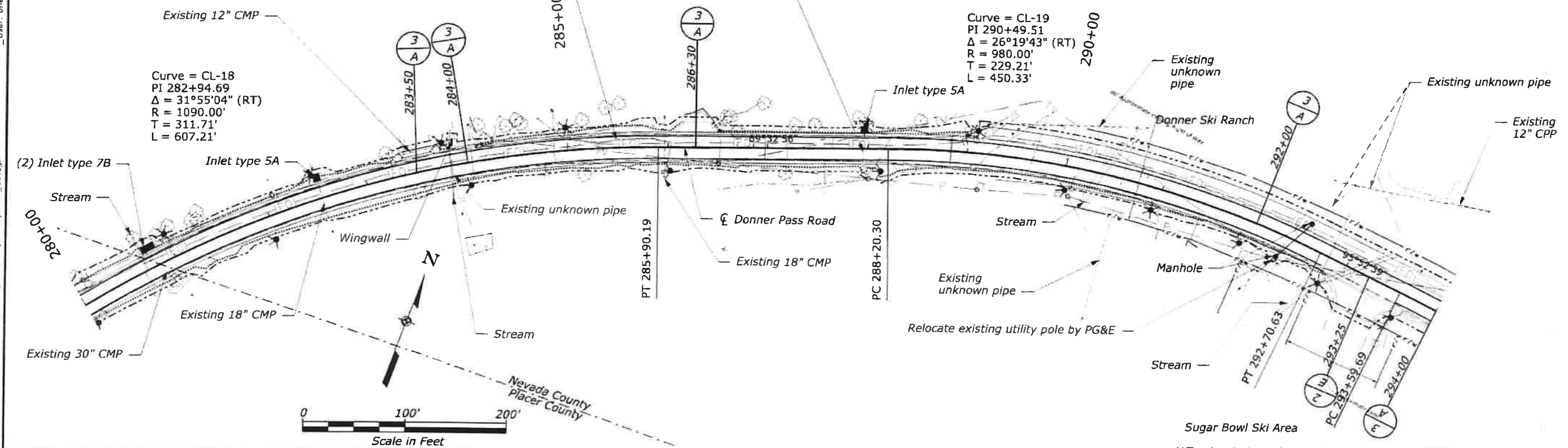
AMENDMENT A009
7/27/21 Revised Profile per RFI 021

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C15

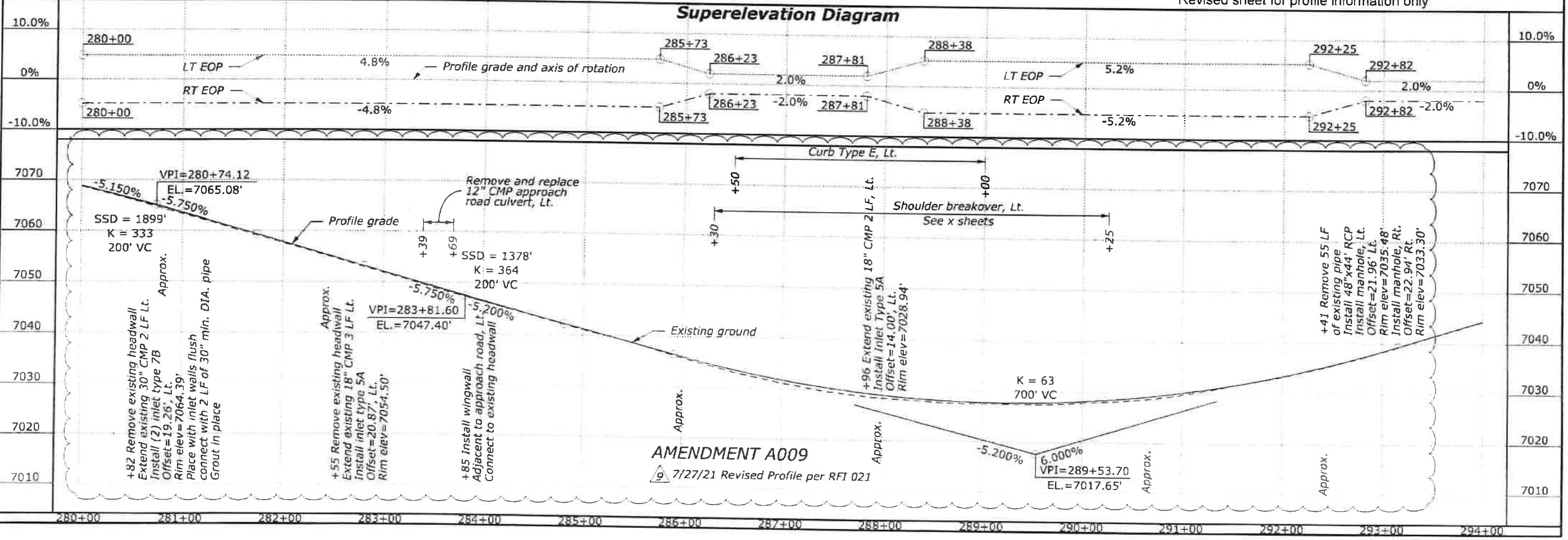


11:06:14 AM Q:\2015 Projects\15-03-02 Donner Pass Preliminary Design - C:\HD\CA FLAP NEV 40(1)\Roadway\CADD_Sheets\CA-ML_PN\PNP\PNP\DONN\CA40_15.dgn User: dhrung

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C15

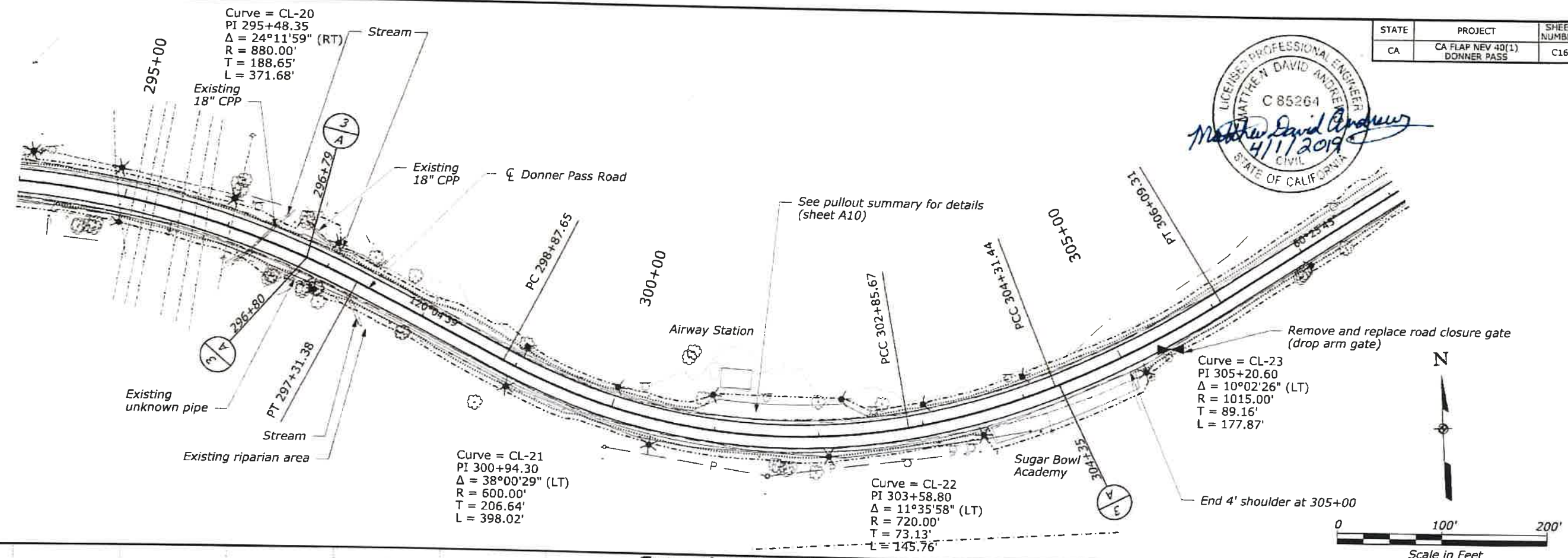


Revised sheet for profile information only

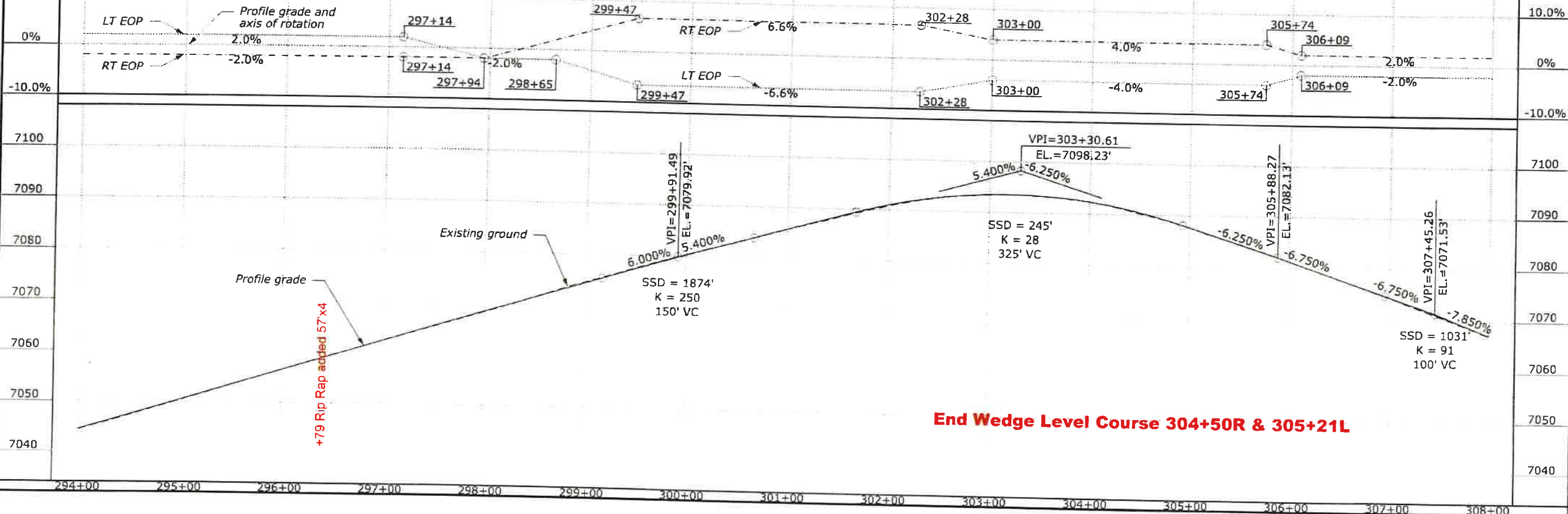


3/21/2019 7:18:57 AM Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - C:\HDD\CA FLAP NEV 40(1)\Roadway\CADD_Sheets\C-M\PNP\PNP(DONN)CA40_16.dgn User: mcarlson

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C16



Superelevation Diagram

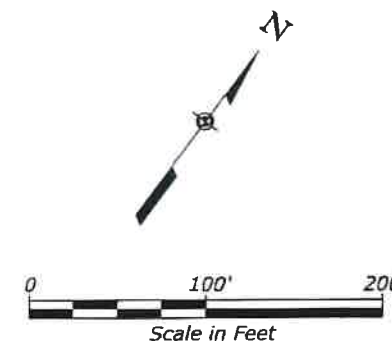
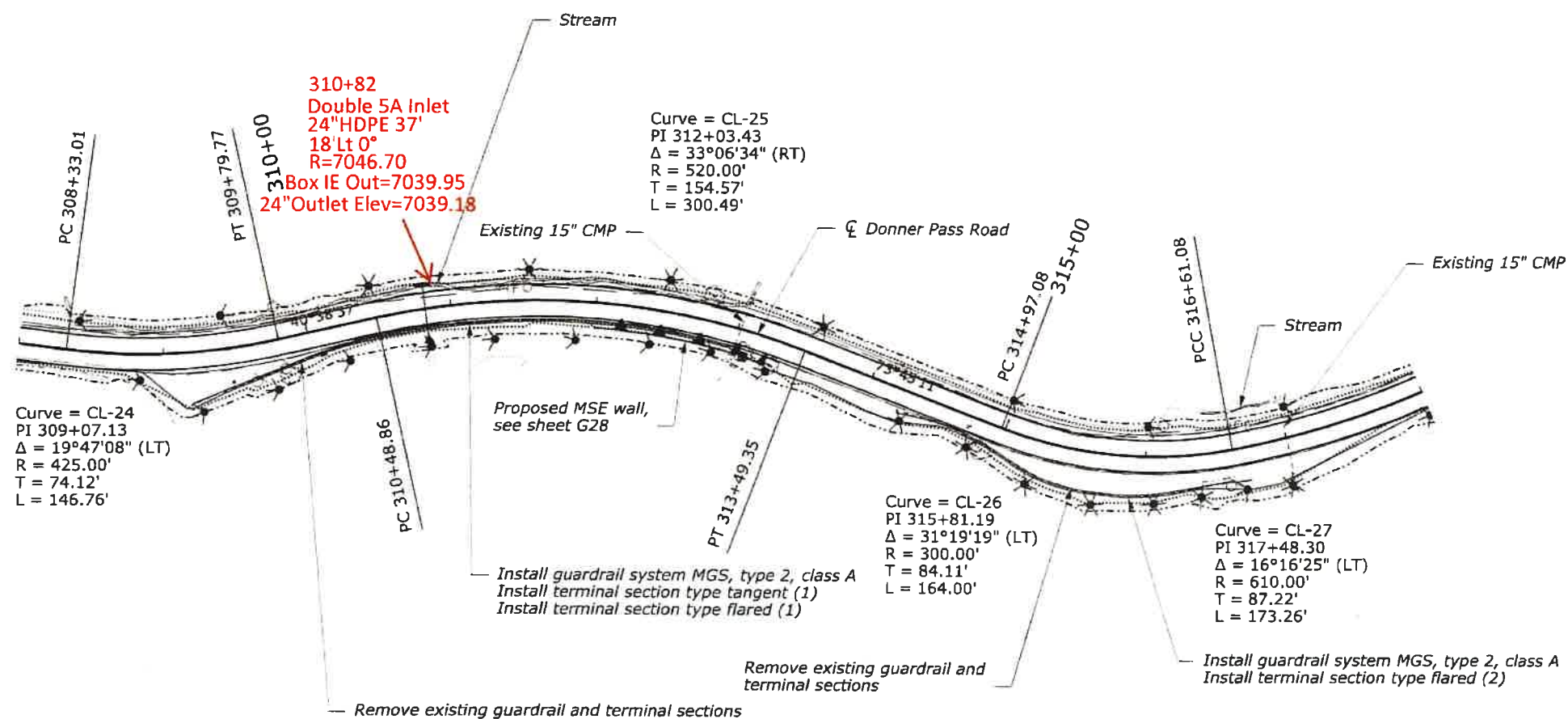


User: mcarlson

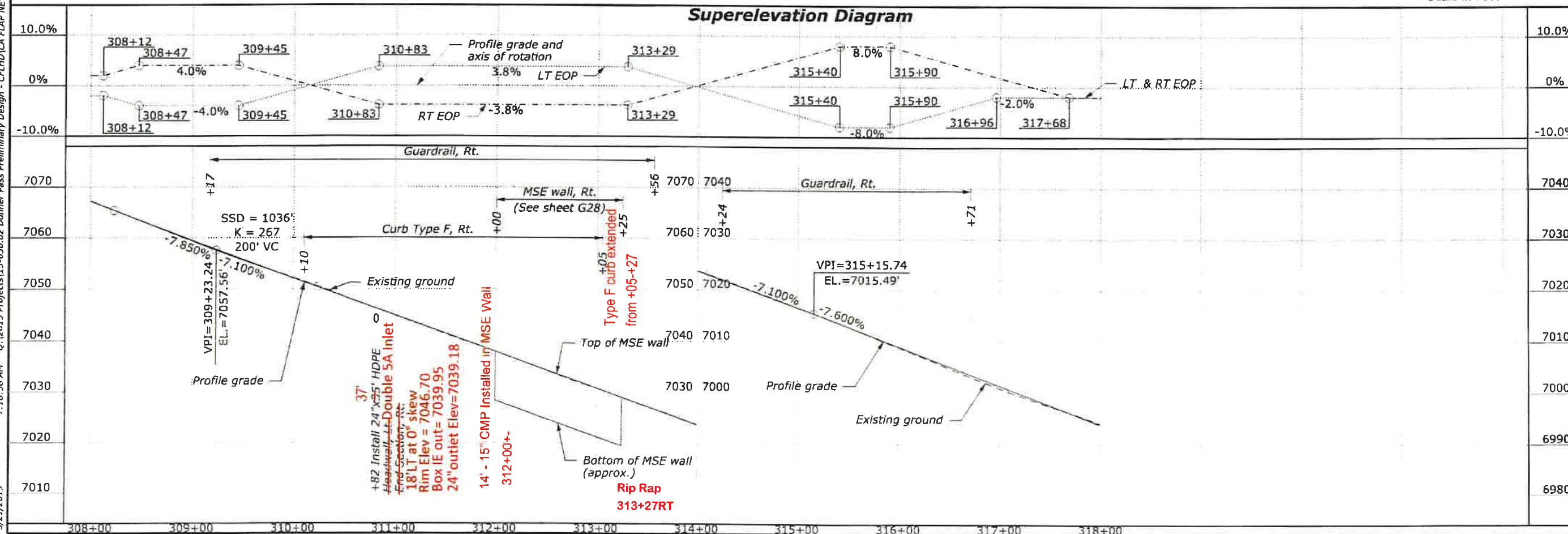
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3/21/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C17

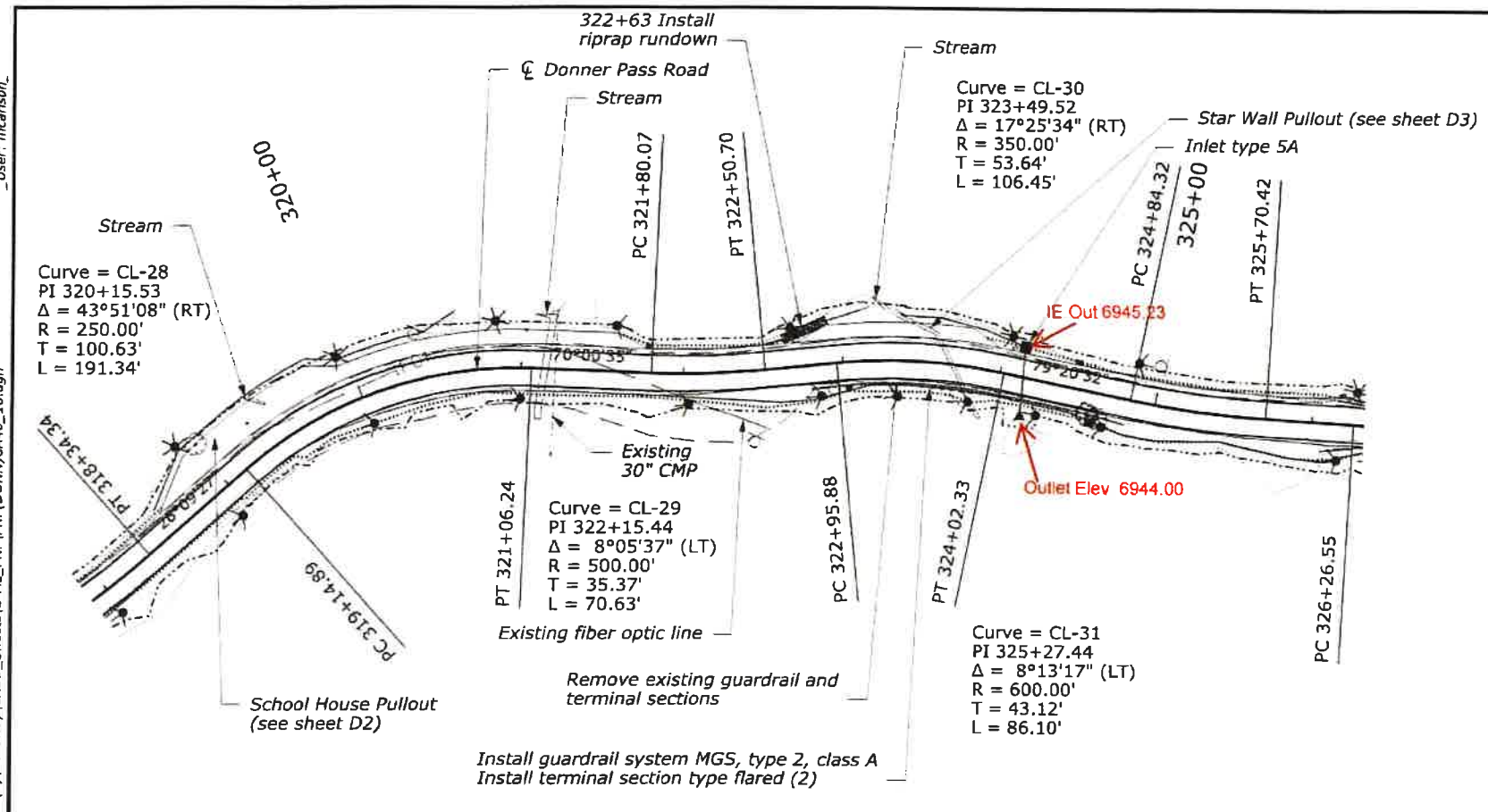
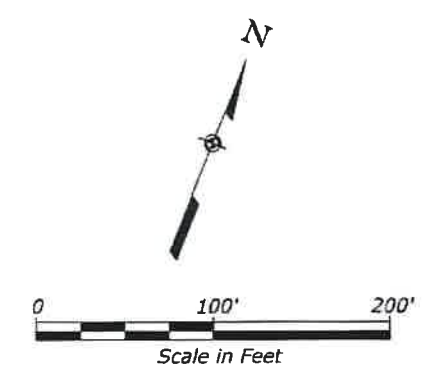


Superelevation Diagram

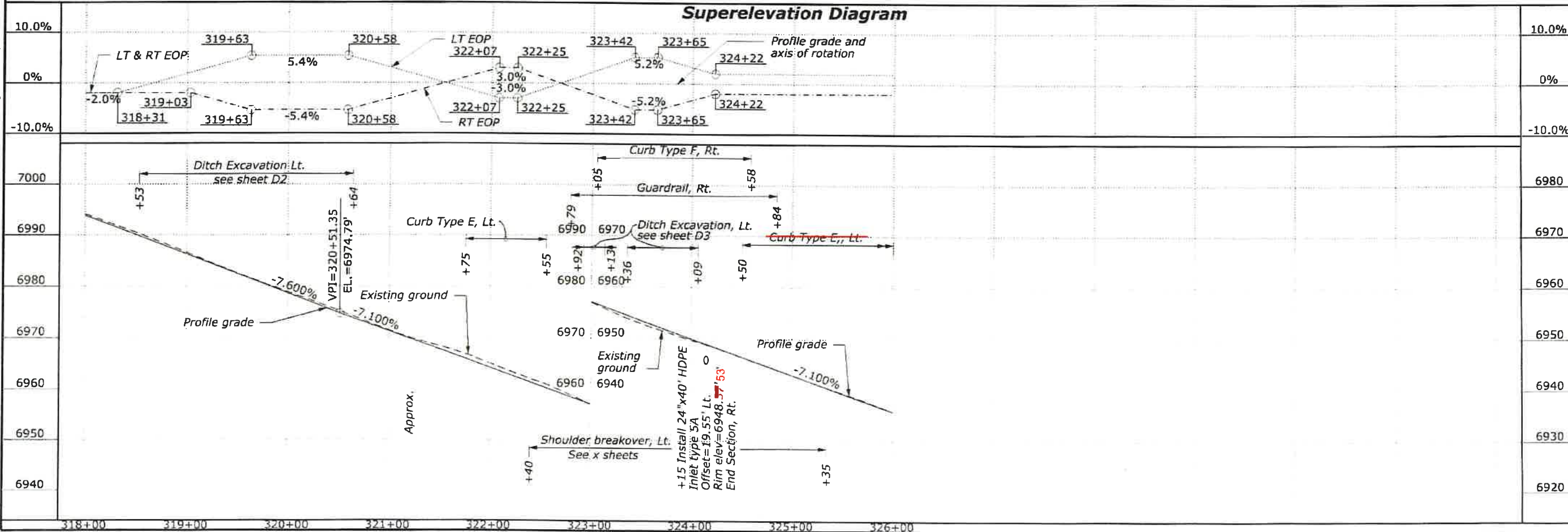


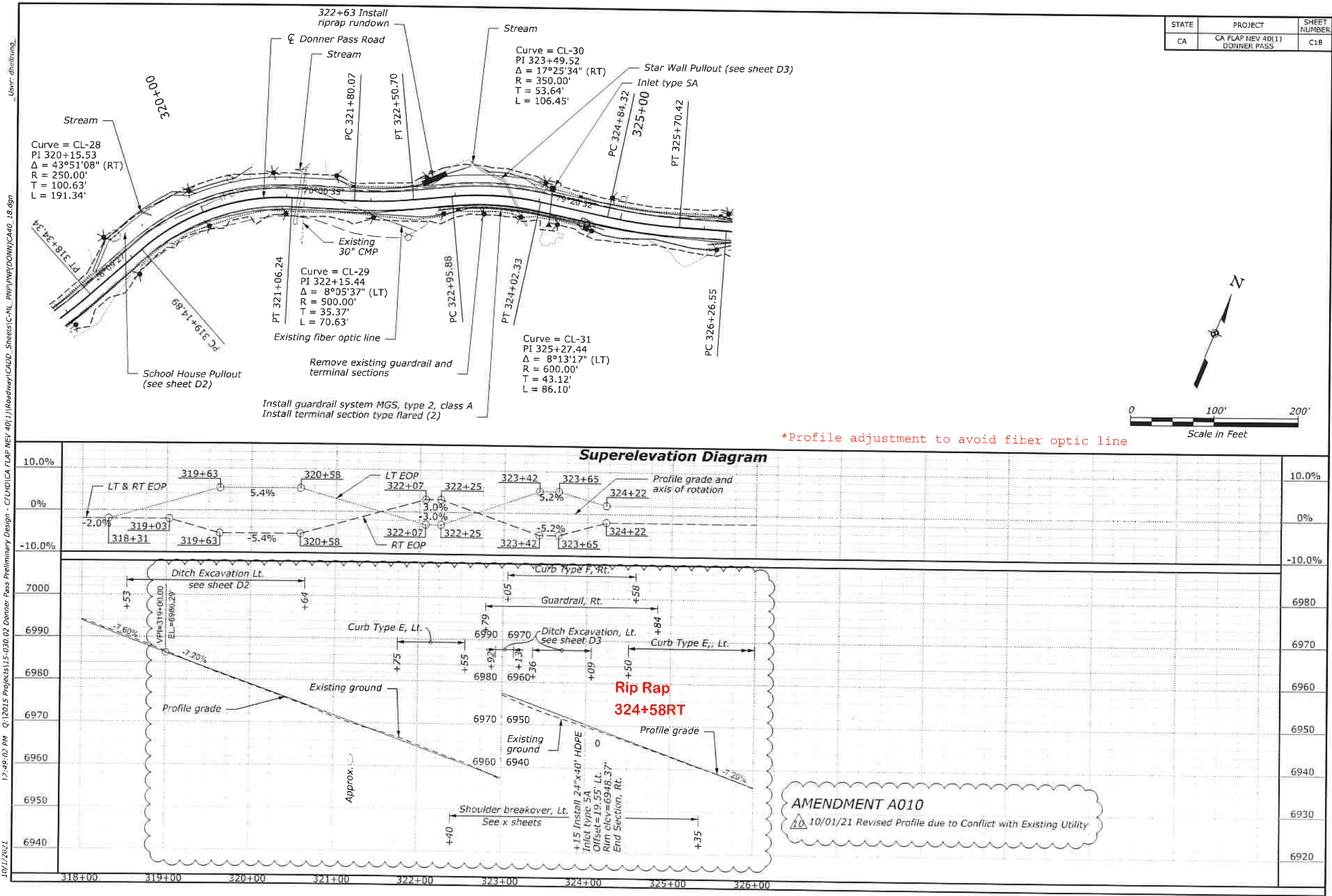
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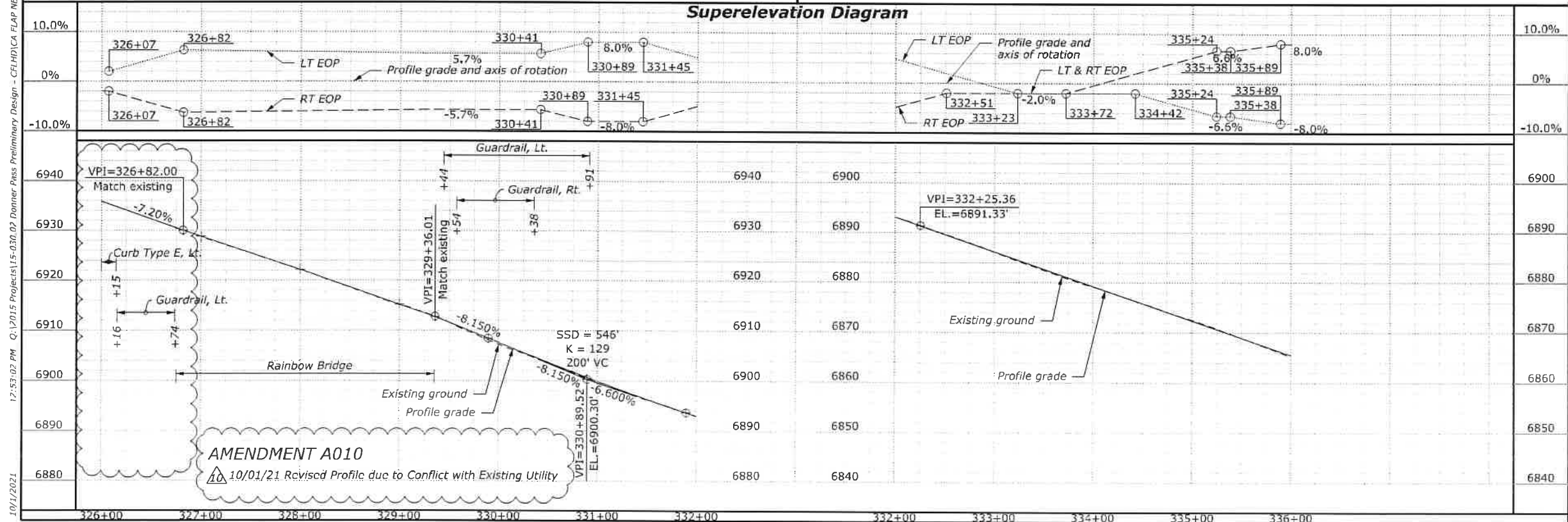
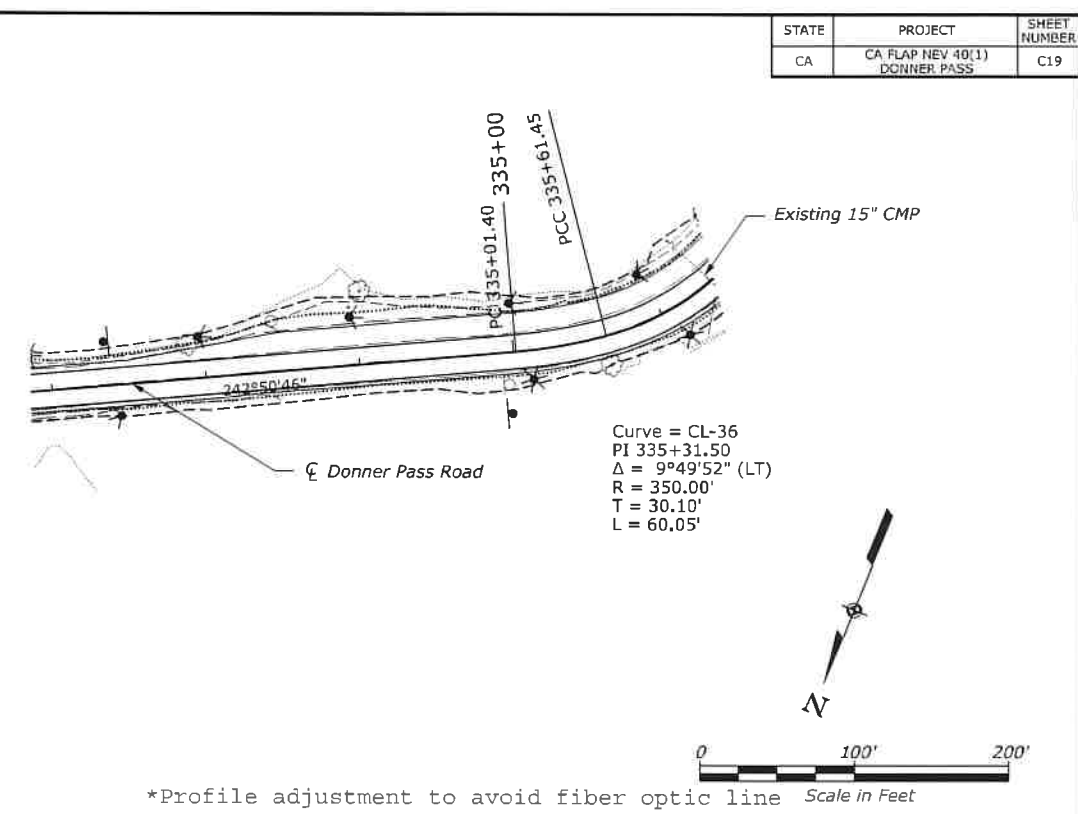
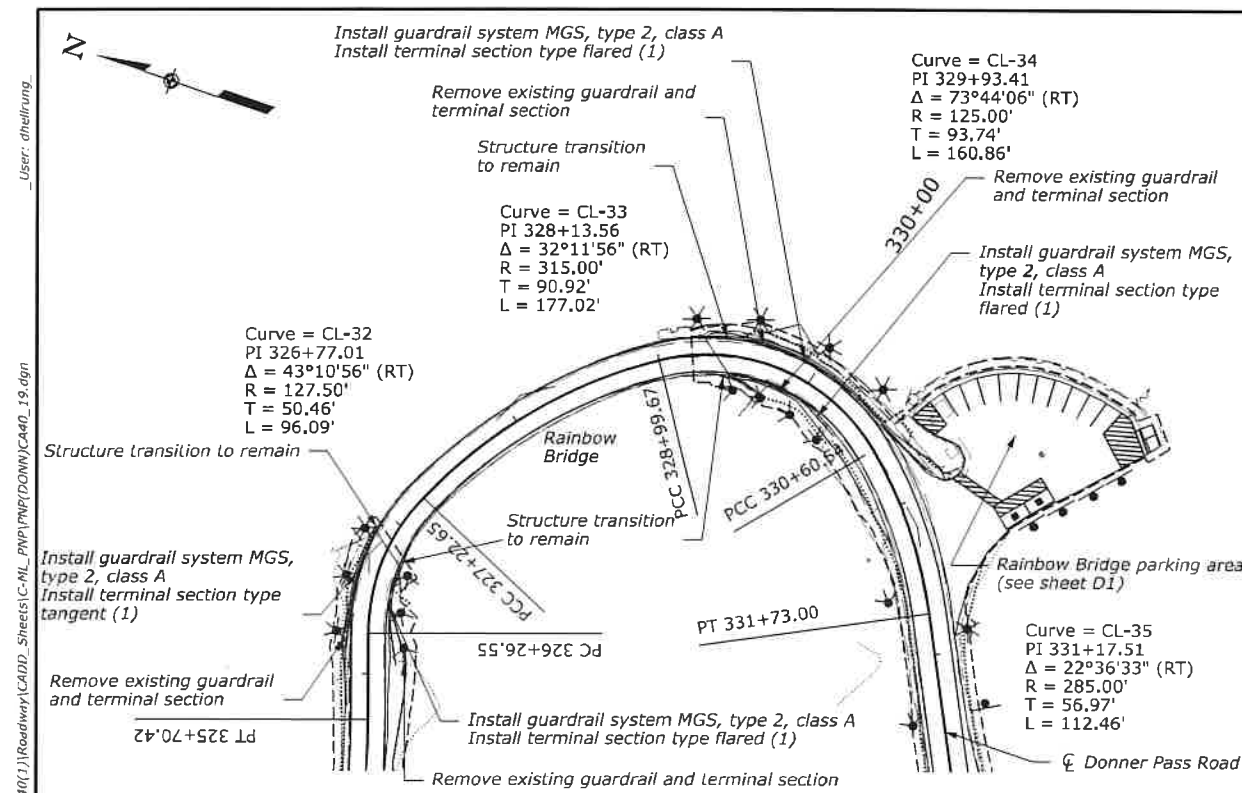
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C18



Superelevation Diagram



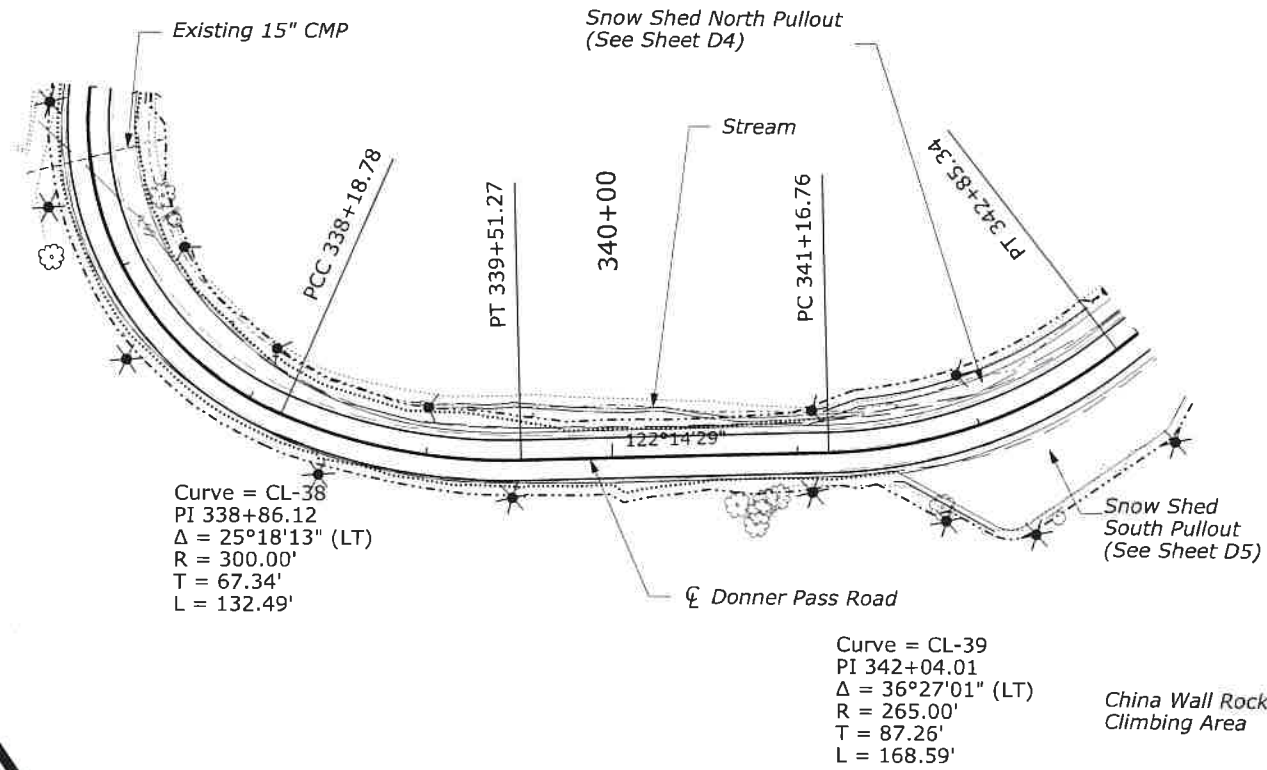




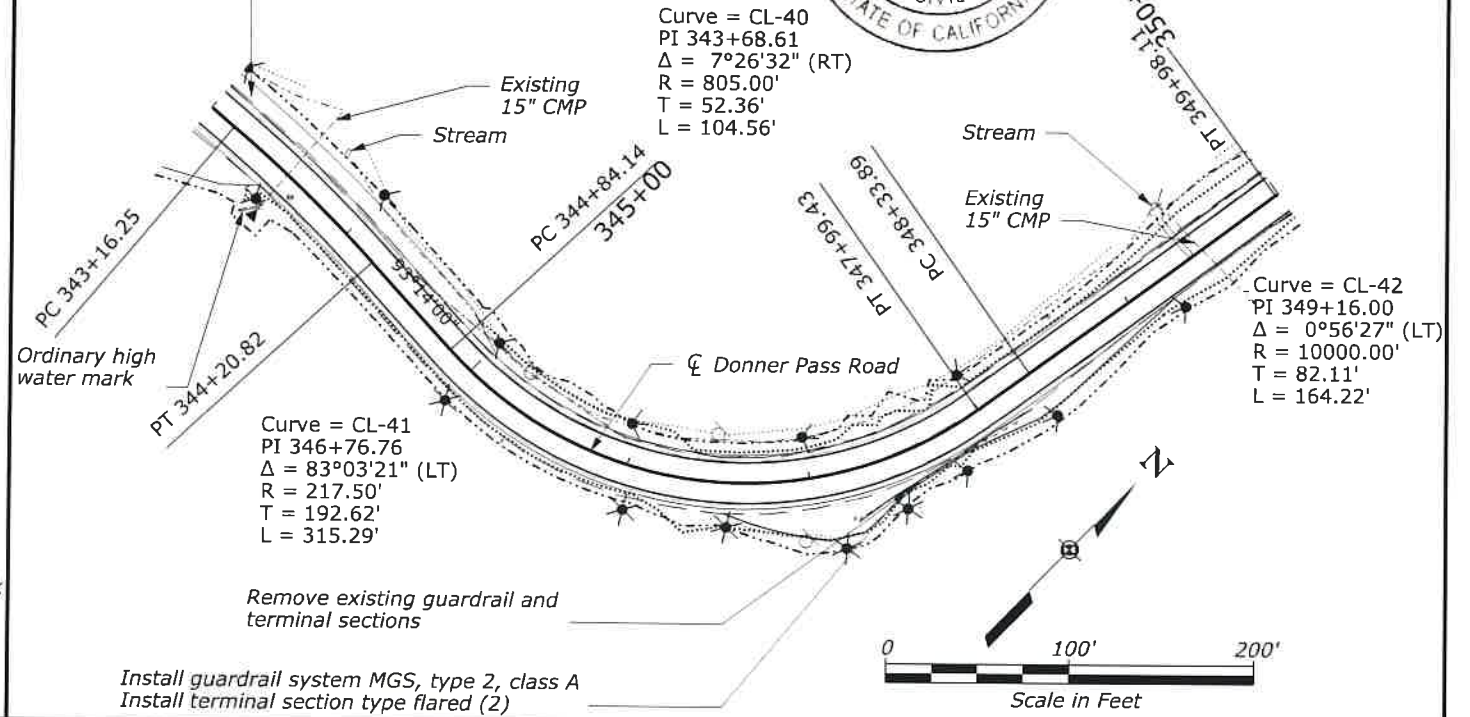
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User: marlison

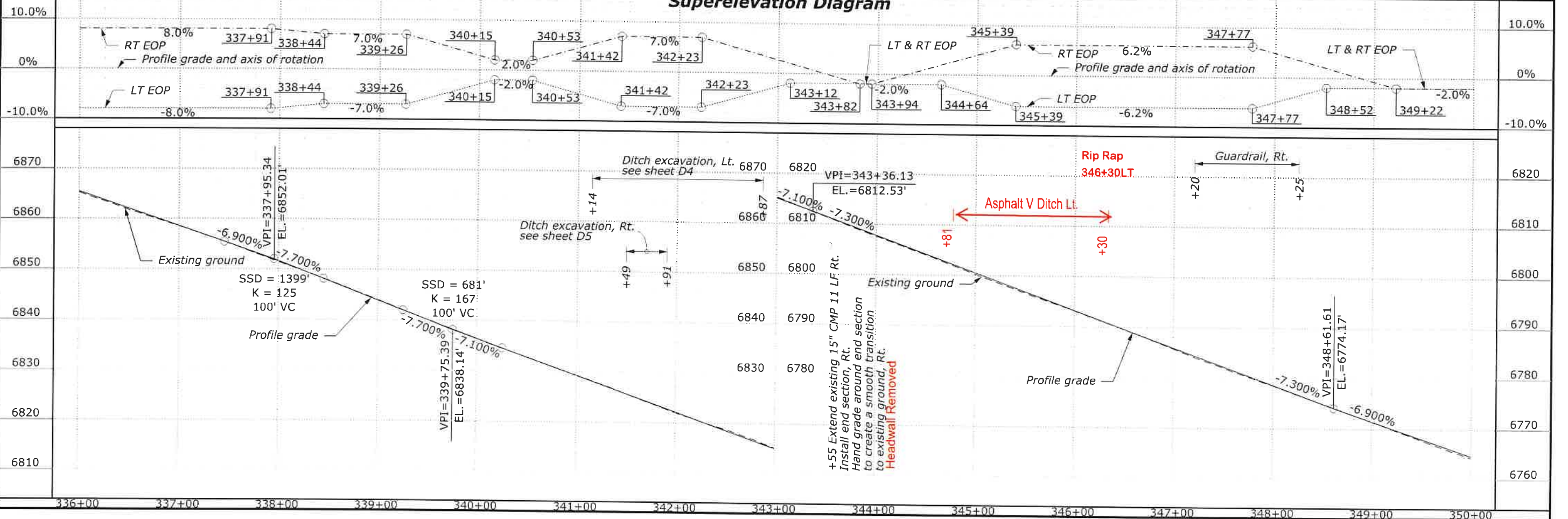
Curve = CL-37
PI 337+20.83
 $\Delta = 85^\circ 28' 12''$ (LT)
R = 172.50'
T = 159.37'
L = 257.32'



Snow Shed North Pullout (See Sheet D4)



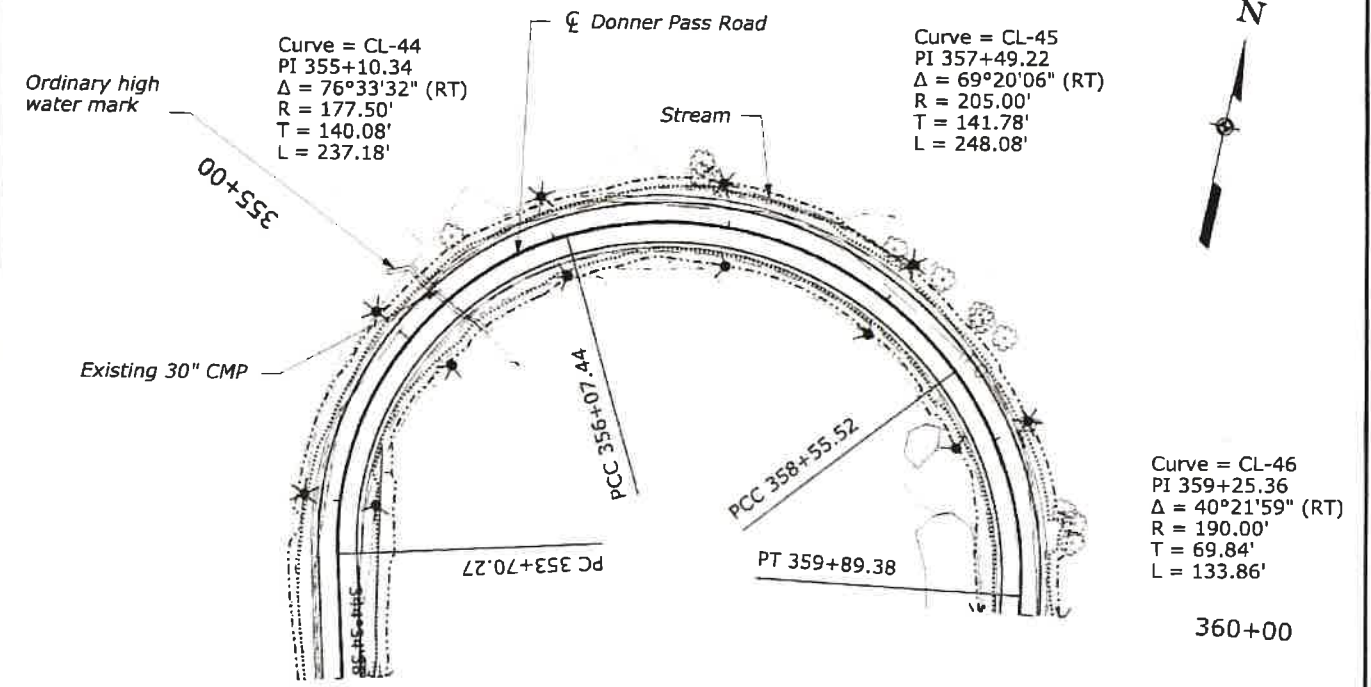
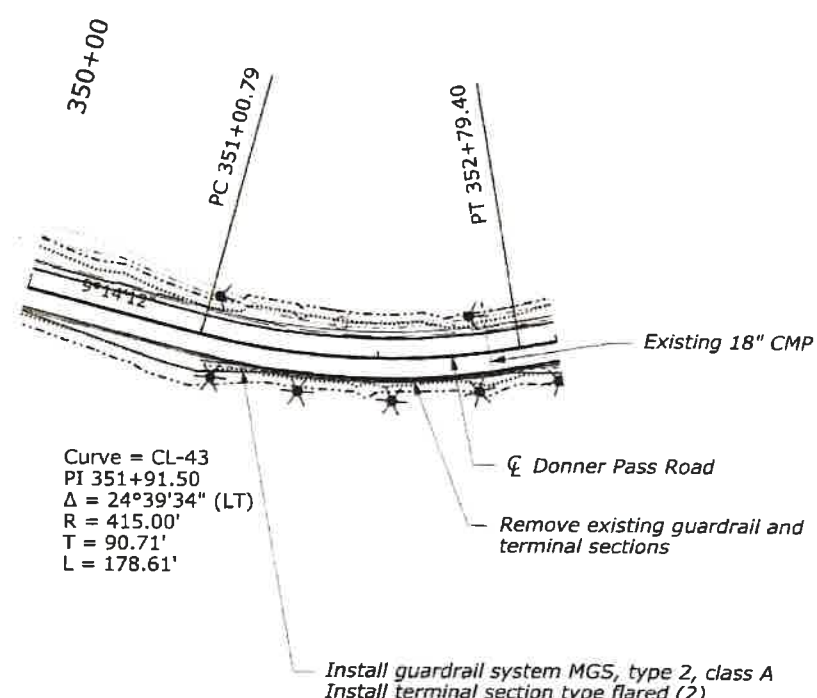
Superelevation Diagram



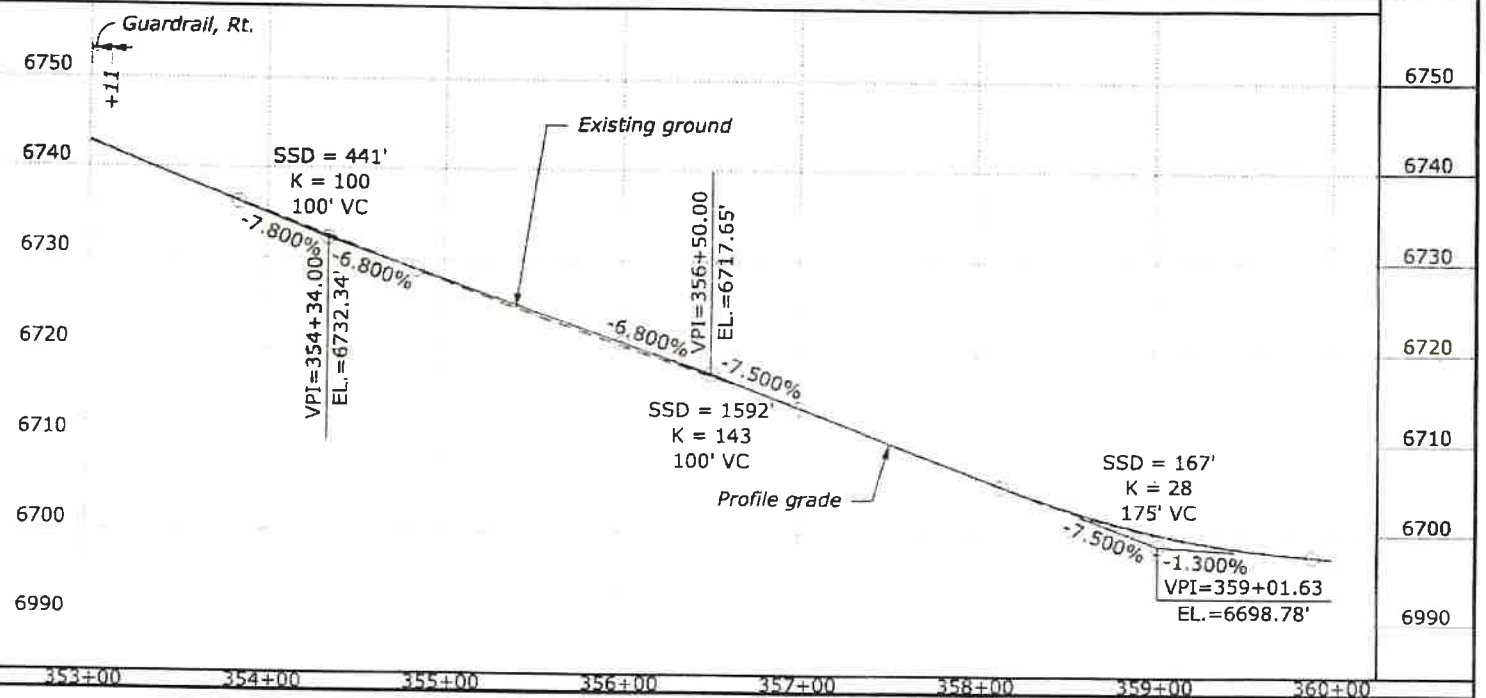
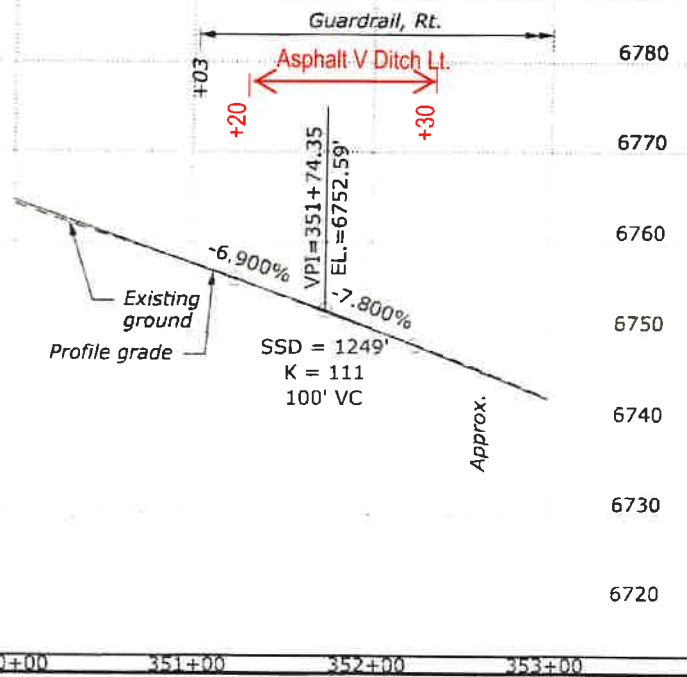
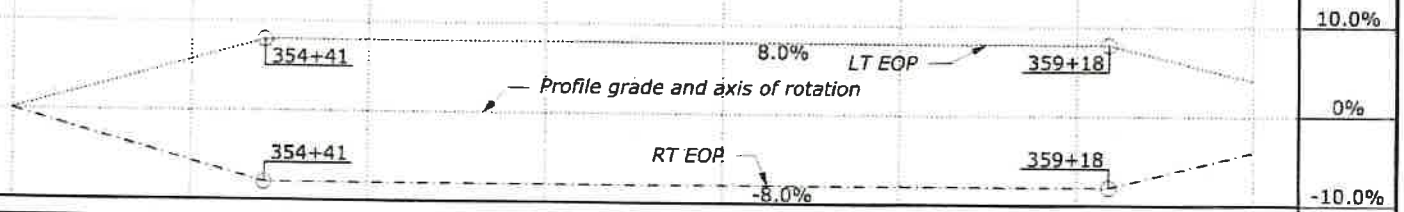
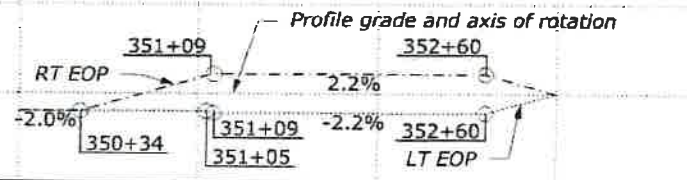
User: mcarlson

3/21/2019 7:19:00 AM Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - C:\ML_P\PNP\DONN\CA40_21.dgn

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C21

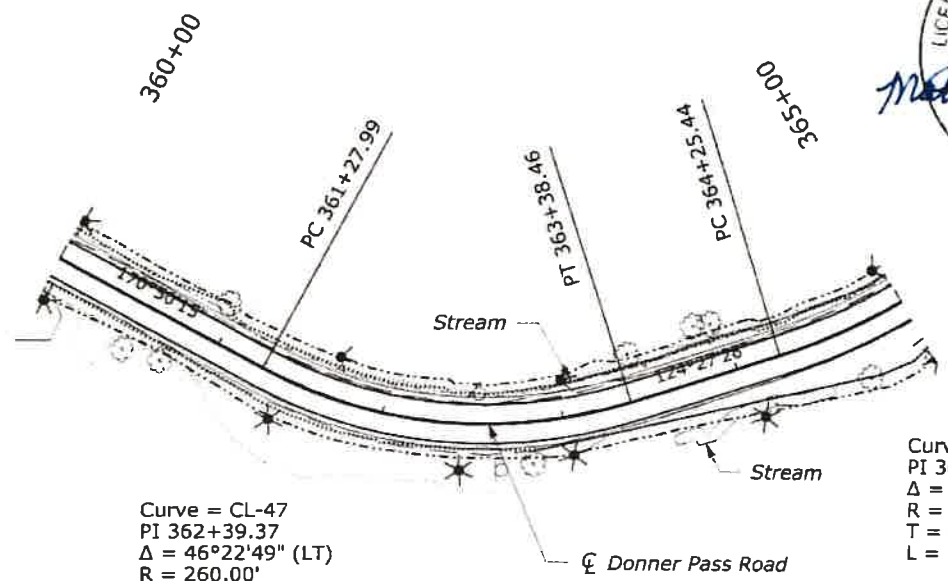


Superelevation Diagram

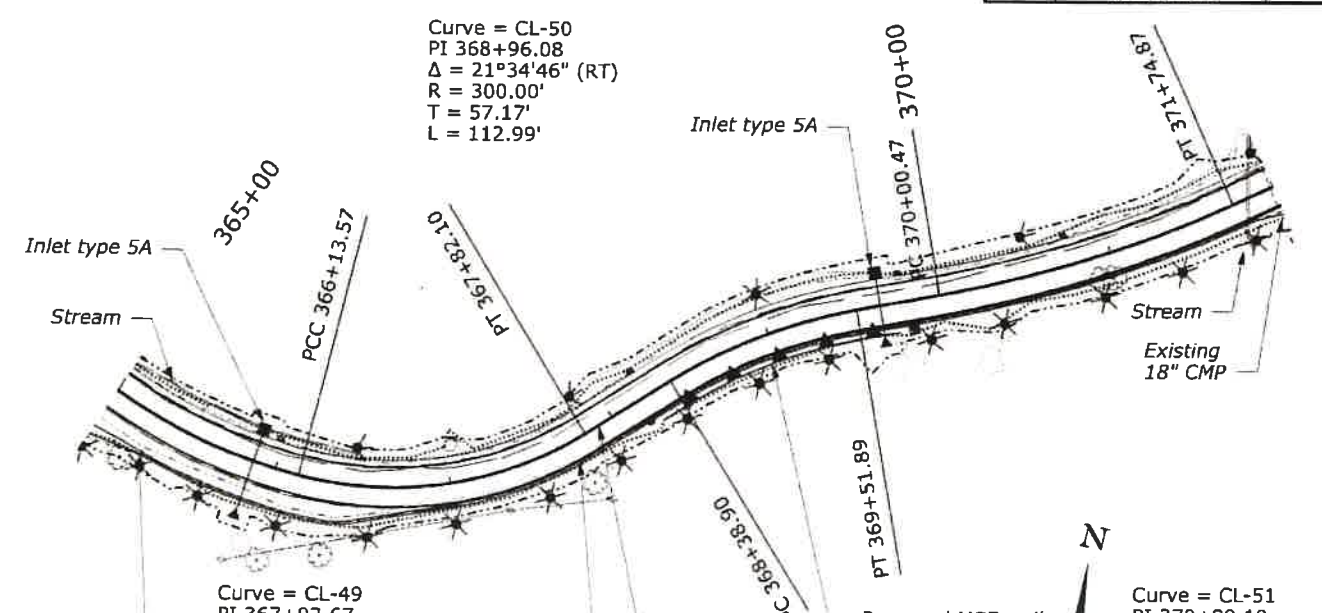


3/21/2019 7:19:01 AM Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - C:\HD\CA FLAP NEV 40(1)\Roadway\CADD_Sheets\C-M_L_P\N\PN\DONN\CA40_22.dgn User: mcarlson

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C22



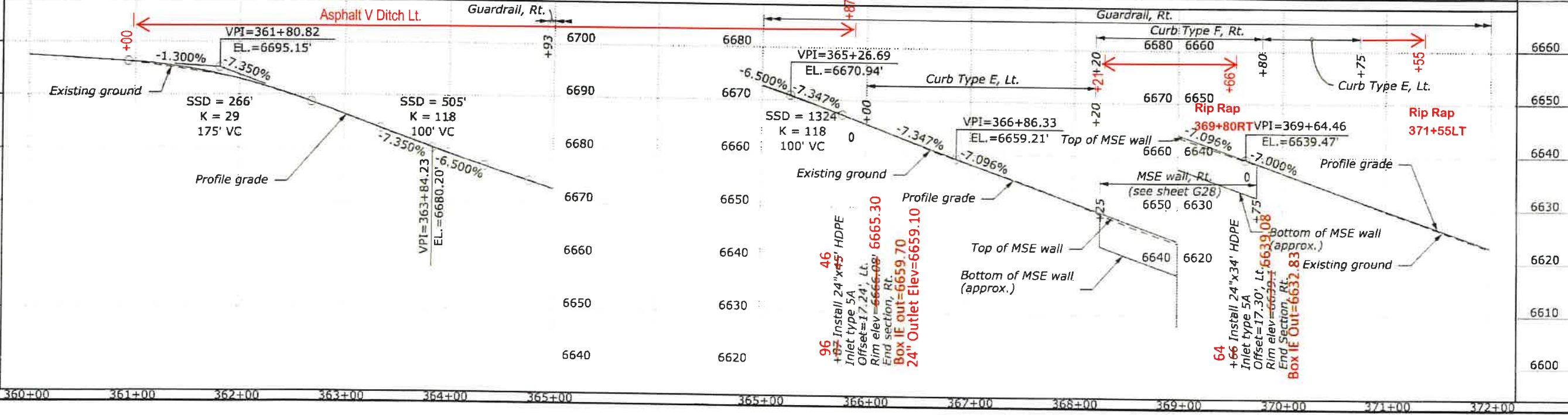
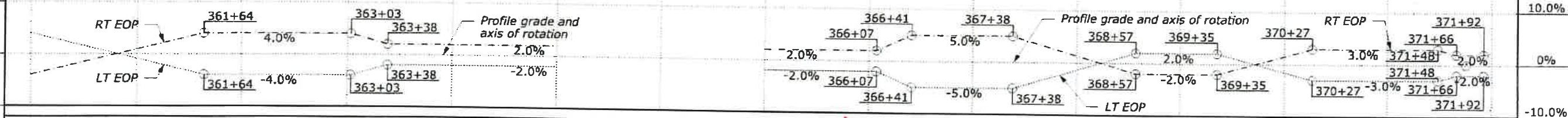
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T = 96.78'
L = 188.13'



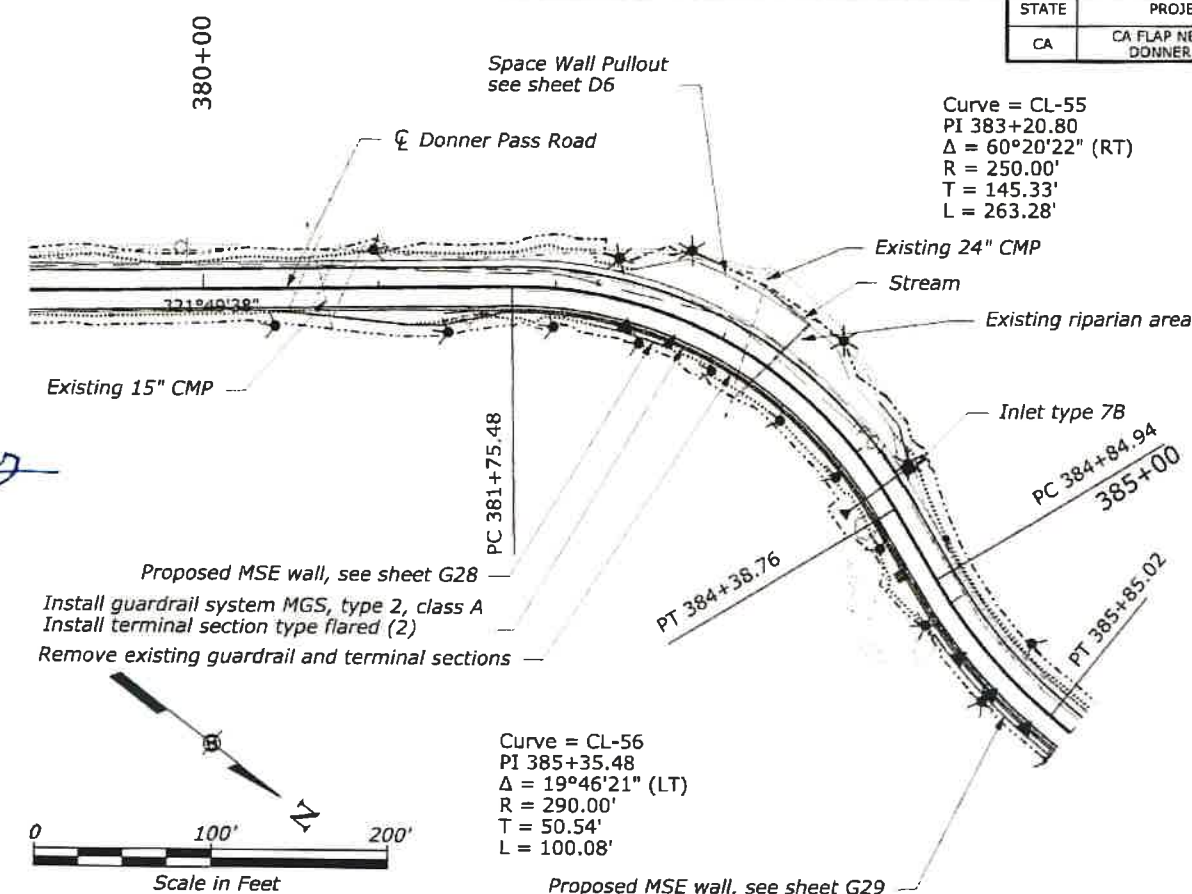
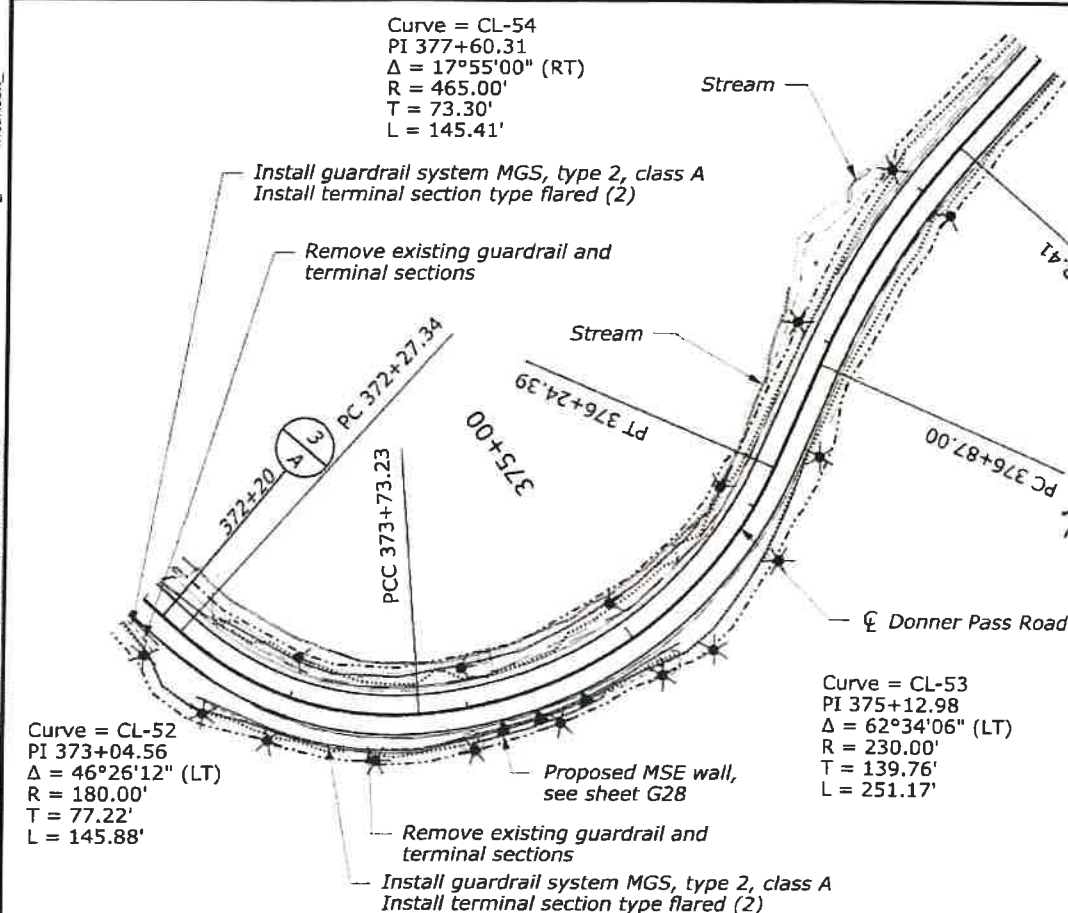
Curve = CL-49
PI 367+02.67
Δ = 45°58'46" (LT)
R = 210.00'
T = 89.10'
L = 168.52'

Curve = CL-51
PI 370+88.10
Δ = 13°58'30" (LT)
R = 715.00'
T = 87.63'
L = 174.40'

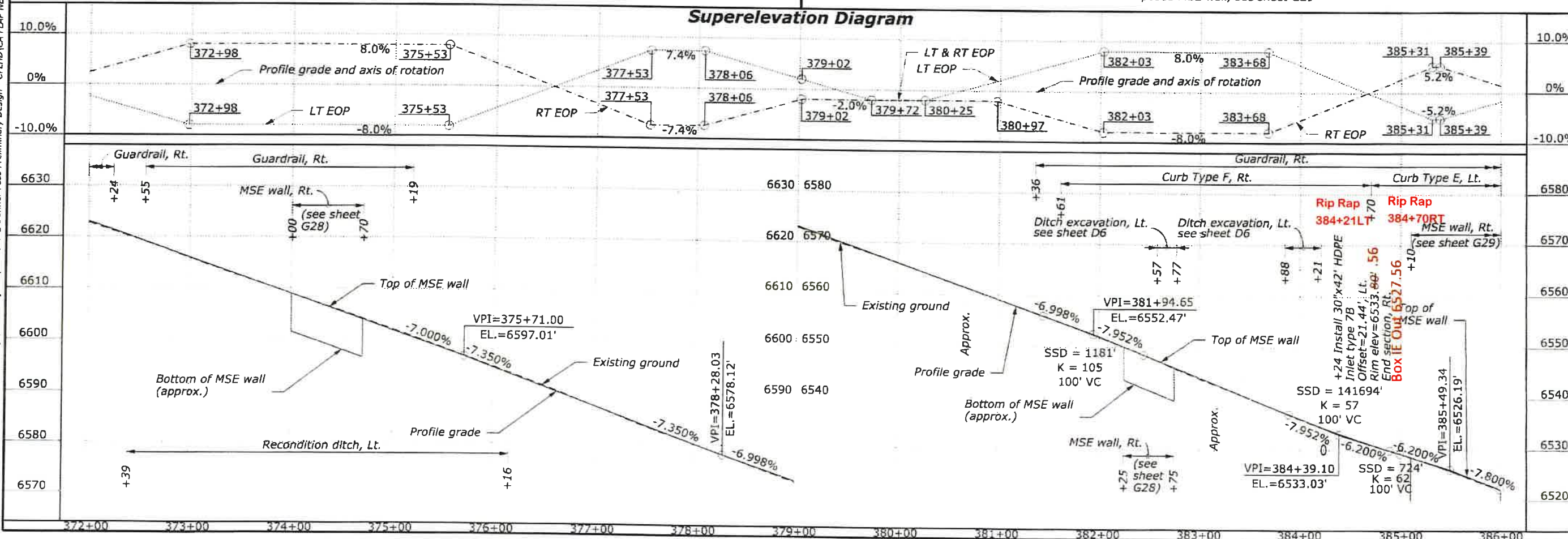
Superelevation Diagram



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) COMMON BASE	C2

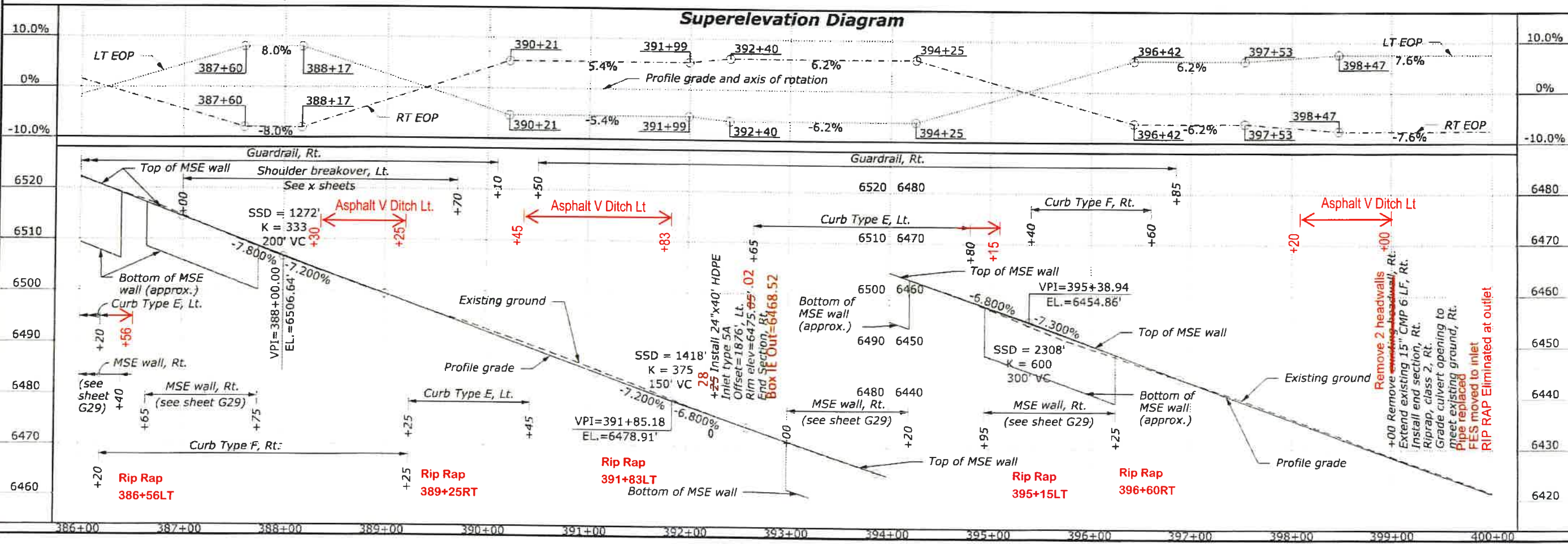
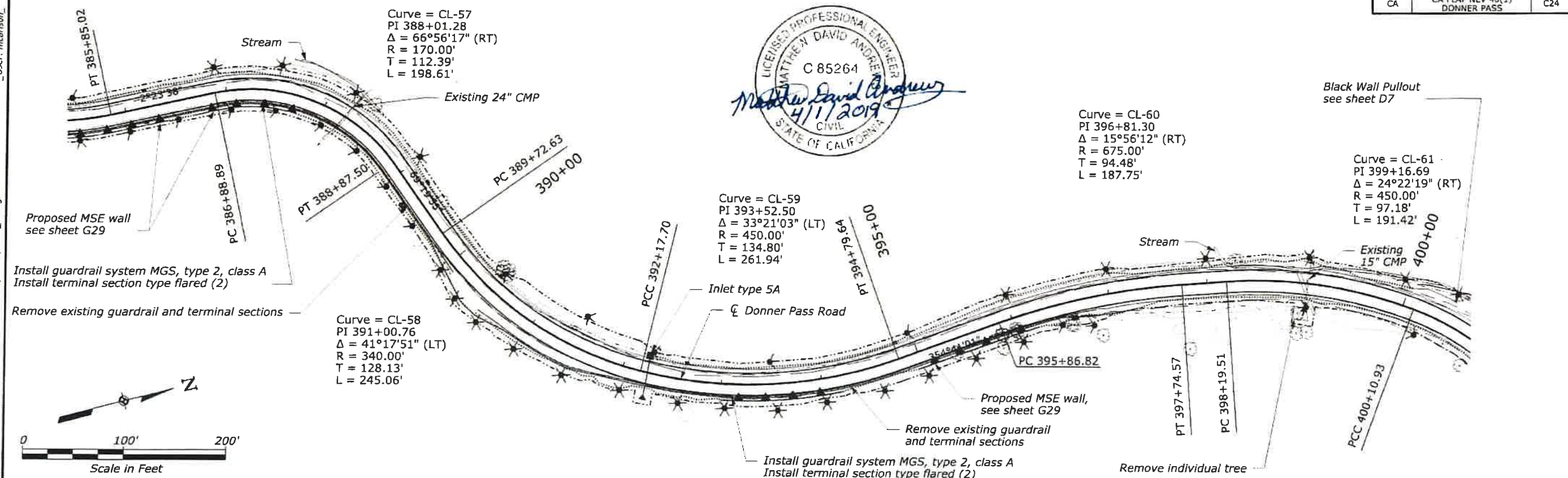


Superelevation Diagram



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C24

User: mcarlson
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 4/1/2019 4:57:32 PM



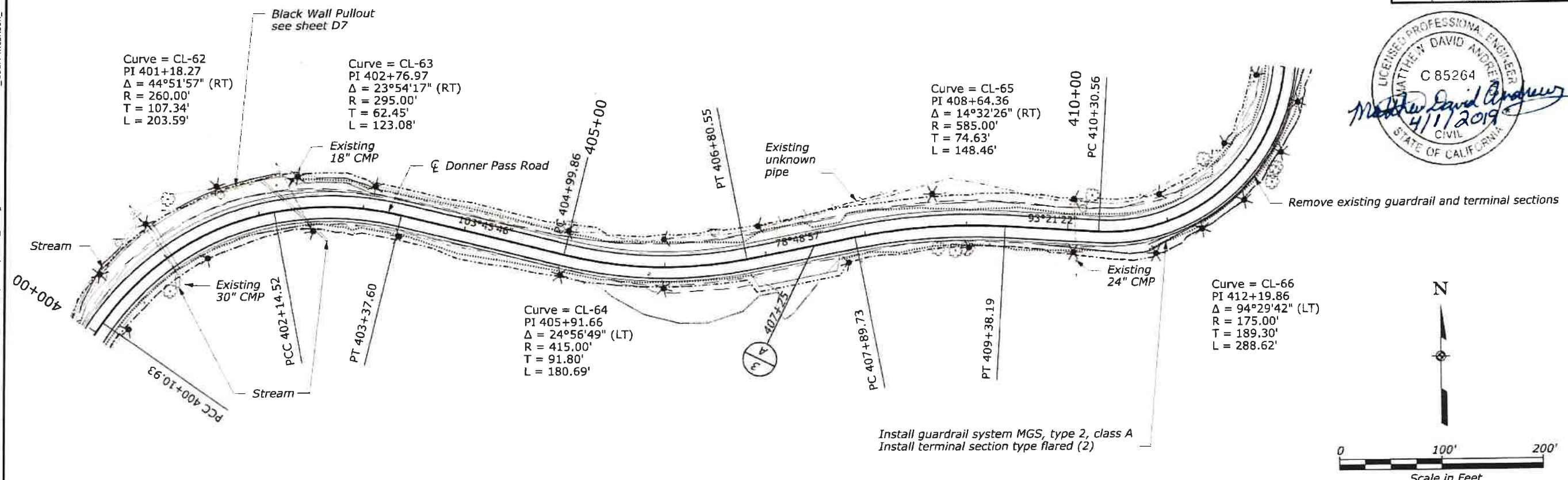
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CA40_25.dgn

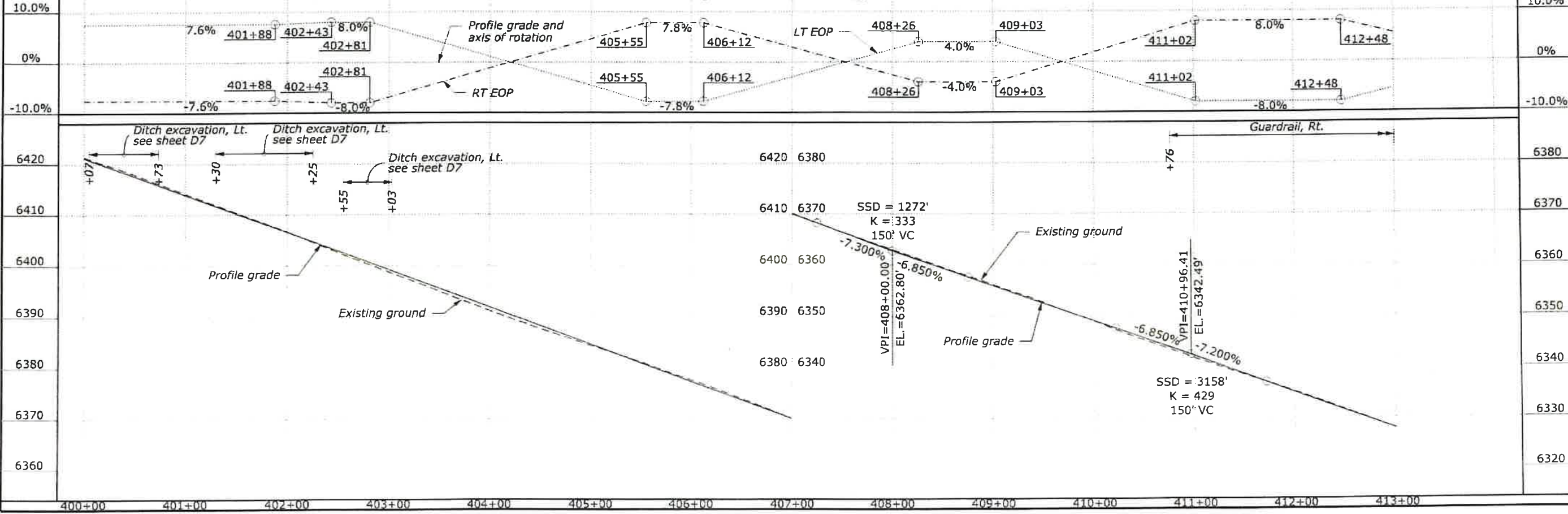
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3/21/2019 7:19:03 AM

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C25



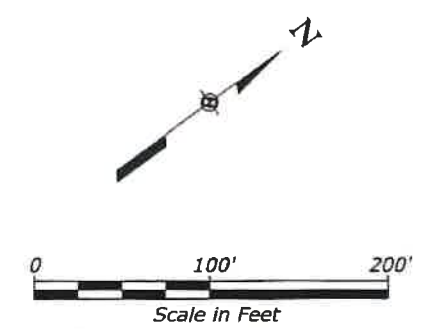
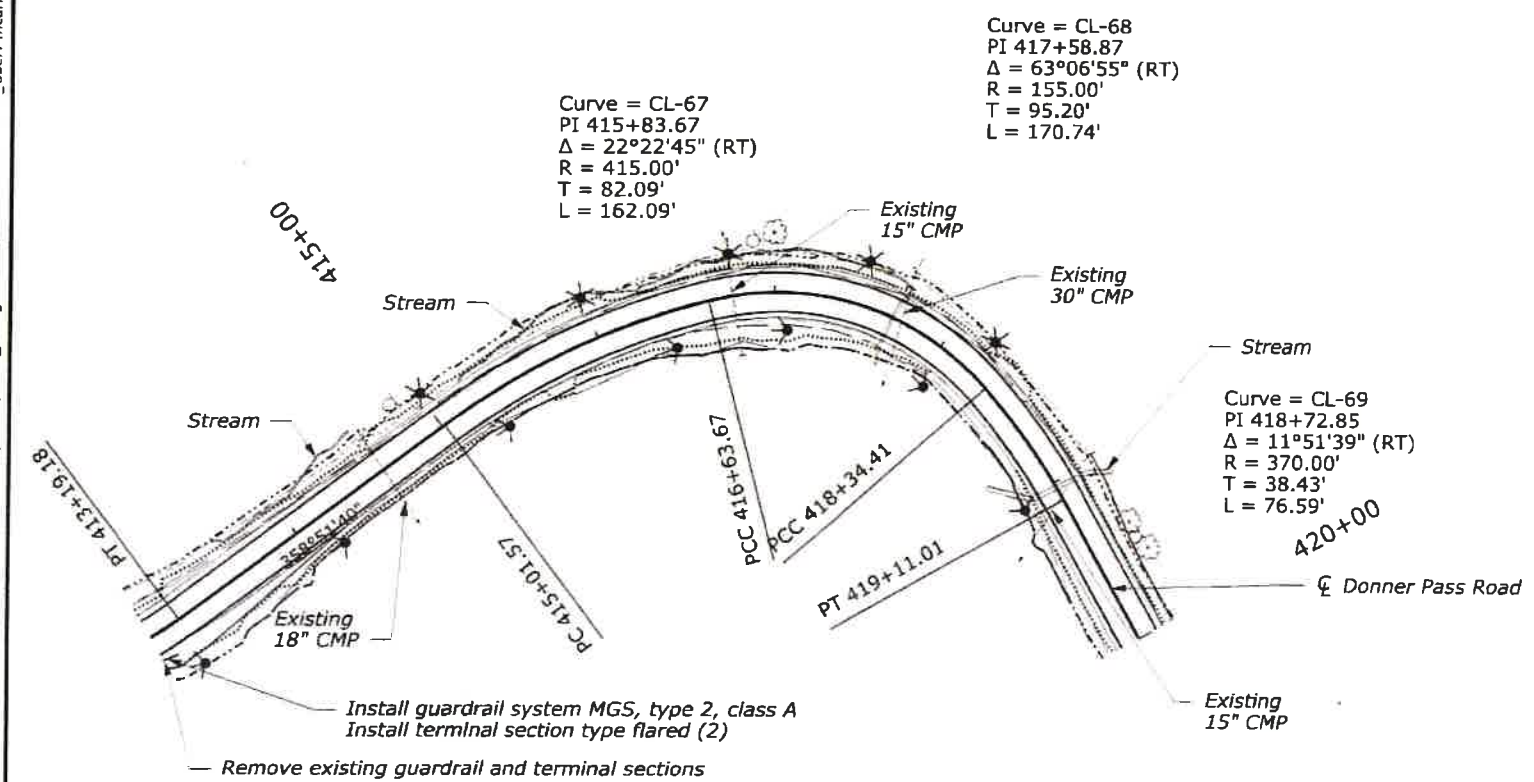
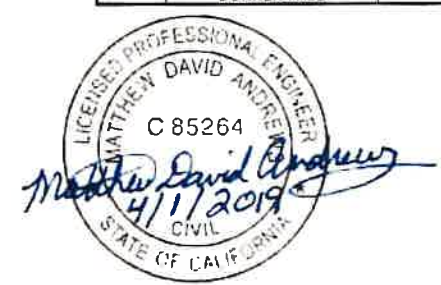
Superelevation Diagram



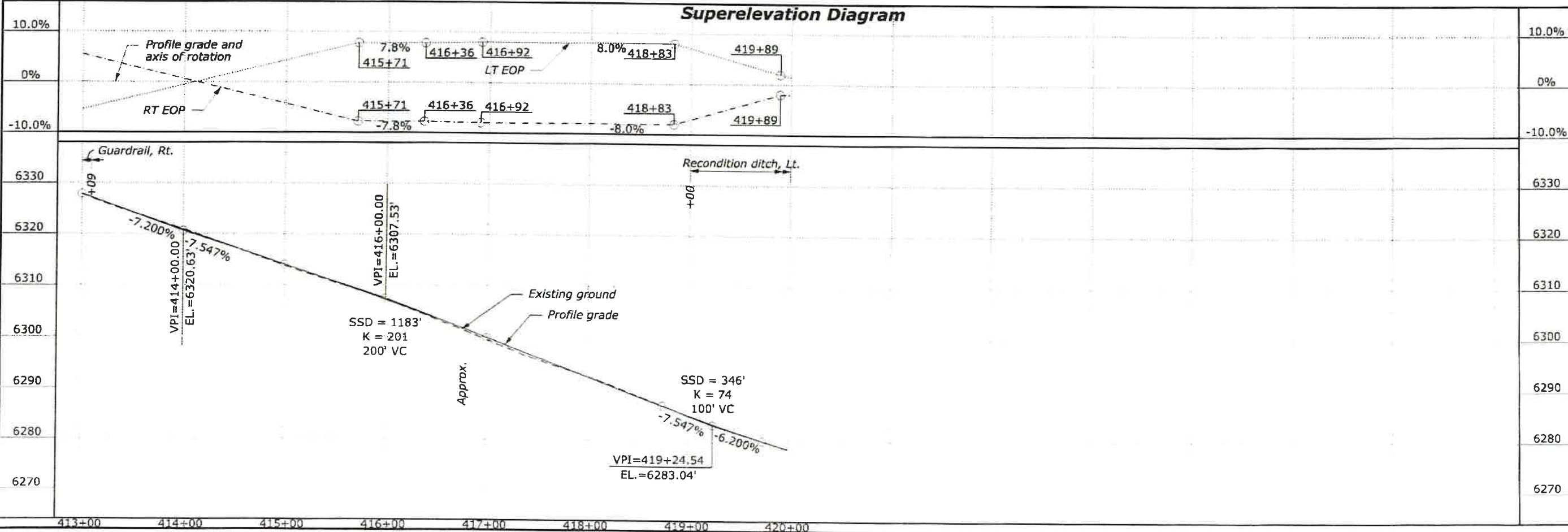
User: mcarlson

Q:\2015 Projects\15-030.02 Donner Pass Preliminary Design - CFLHD\CA FLAP NEV 40(1)\Roadway\CADD_Sheets\C-M_L_PNP\PNP(DOWN)\CA40_26.dgn 7:19:04 AM 3/21/2019

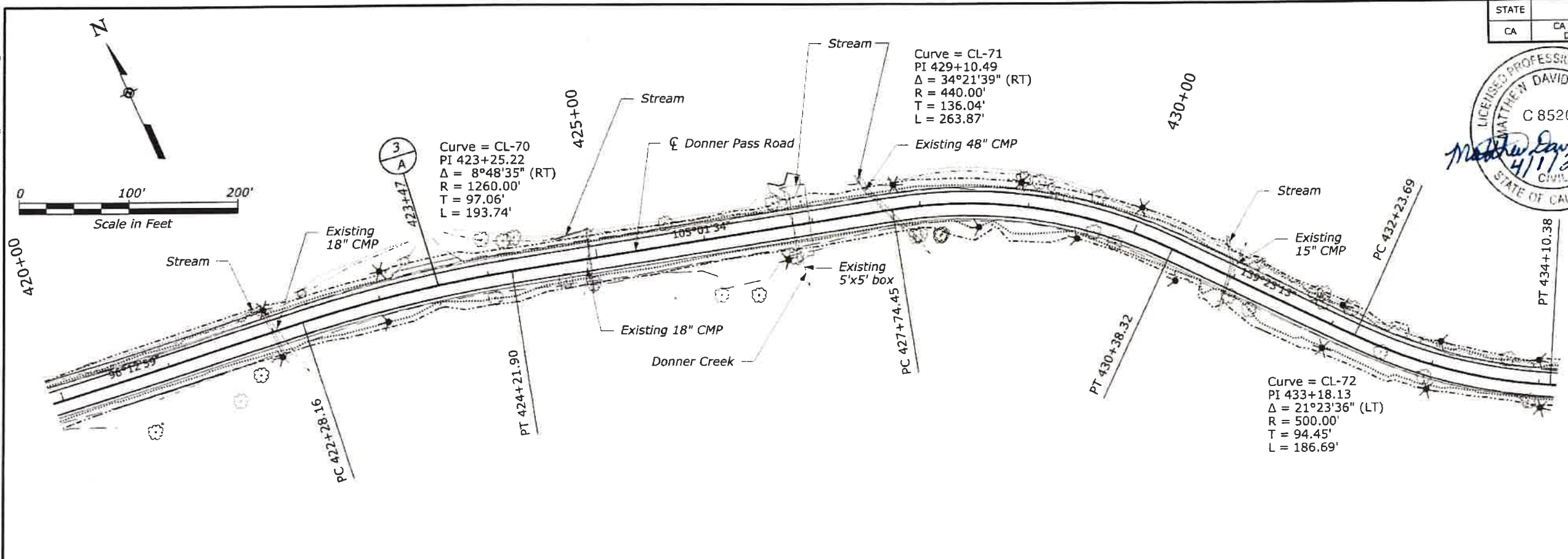
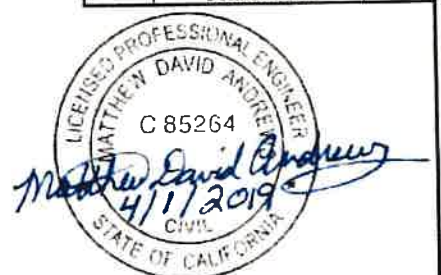
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CA	CA FLAP NEV 40(1) DONNER PASS	C26



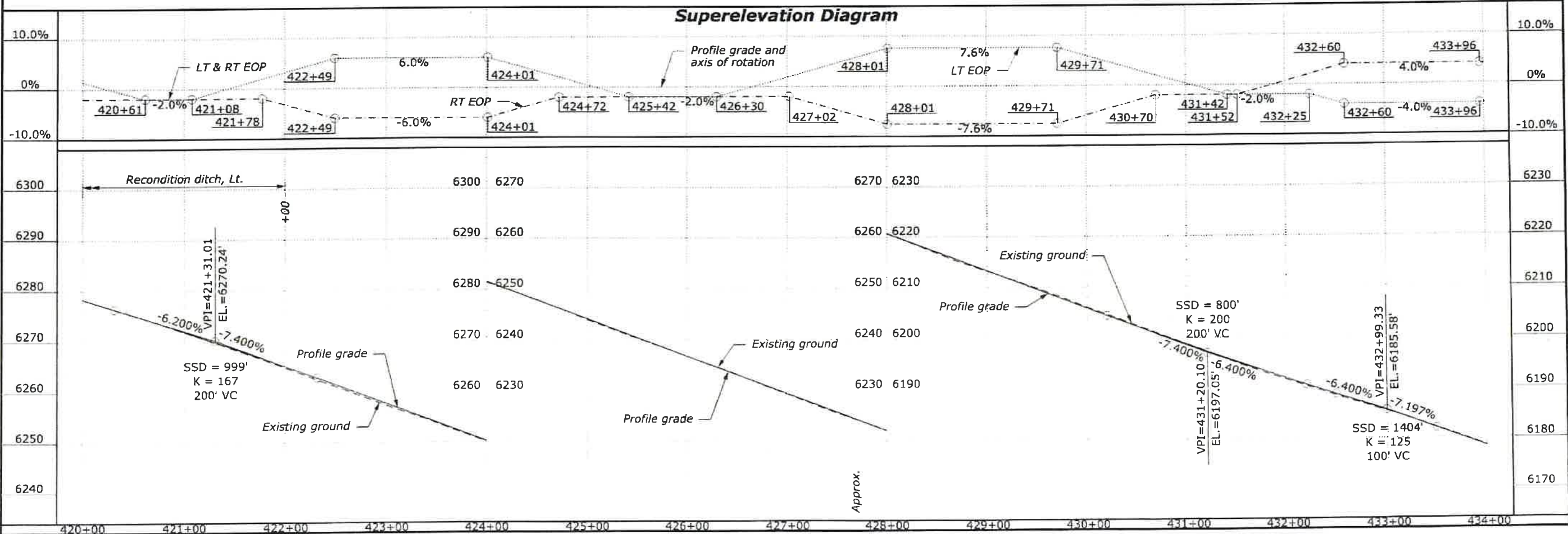
Superelevation Diagram



STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C27



Superelevation Diagram



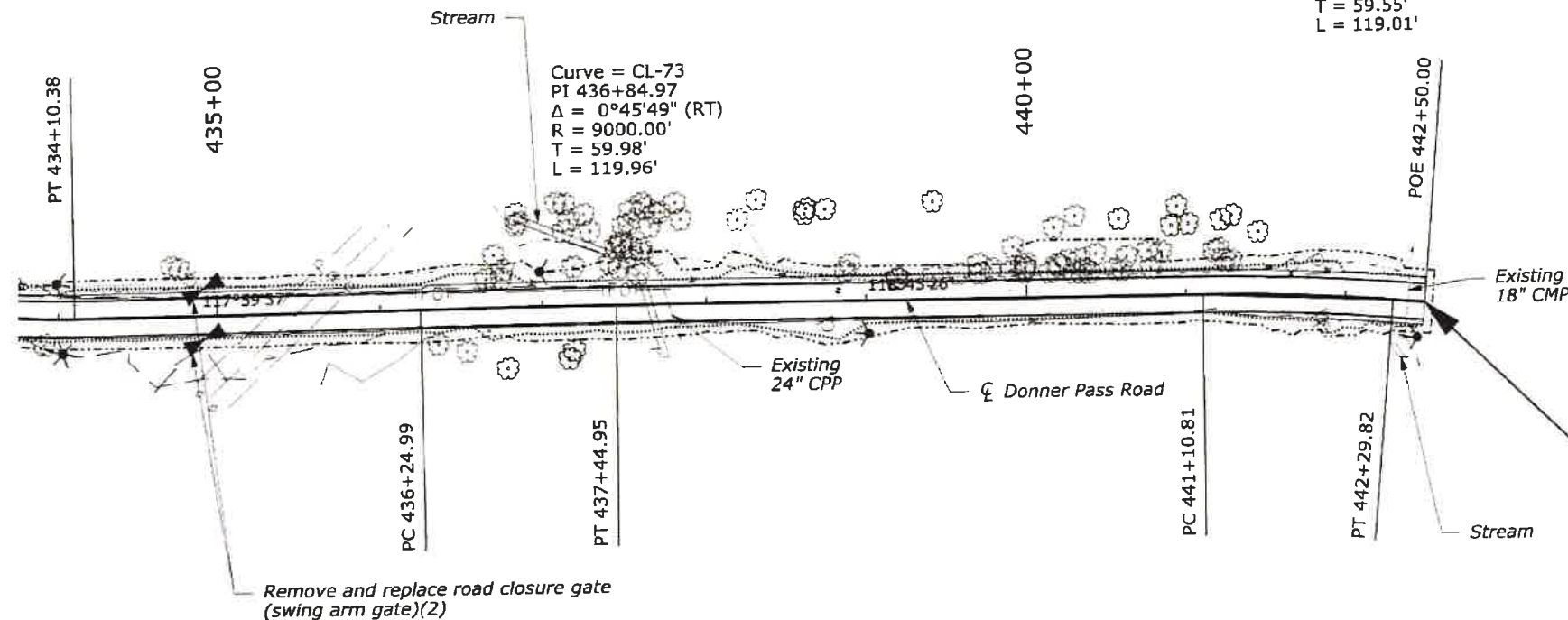
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User: mearlson

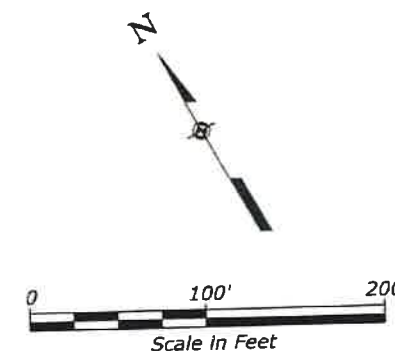
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3/21/2019 7:19:05 AM

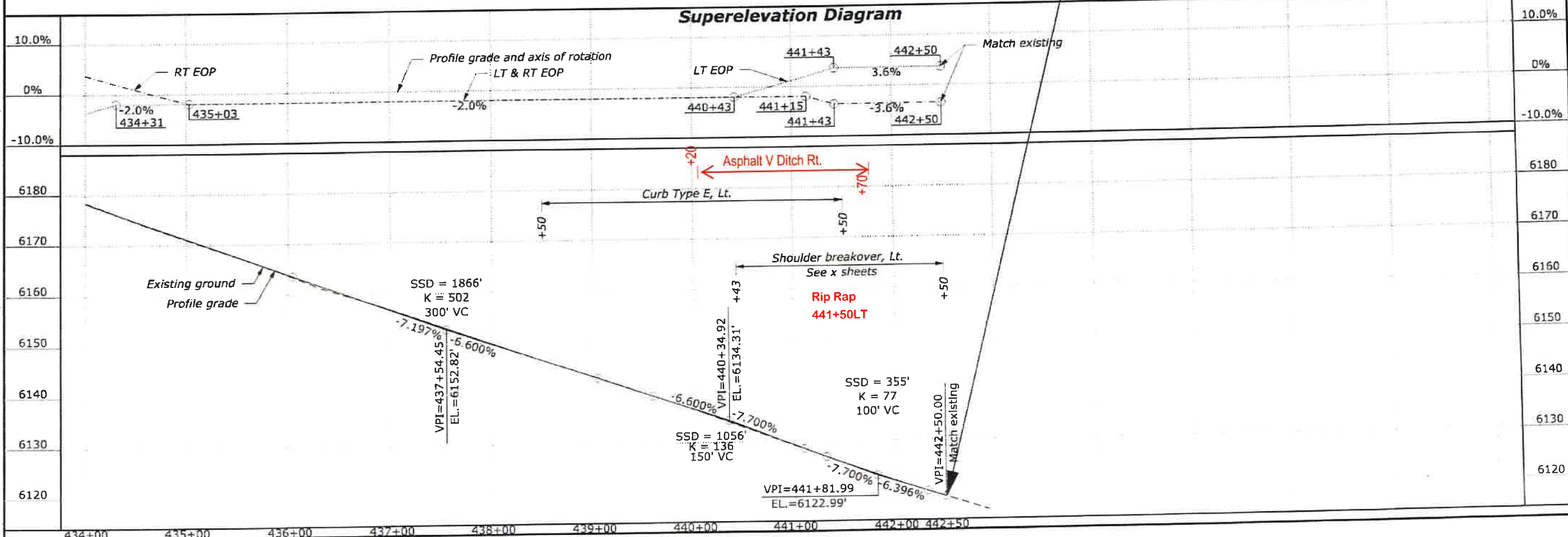
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	C28



End Project
Station 442+50.00
CA FLAP NEV 40(1)
N 2248659.60
E 7042461.07



Superelevation Diagram

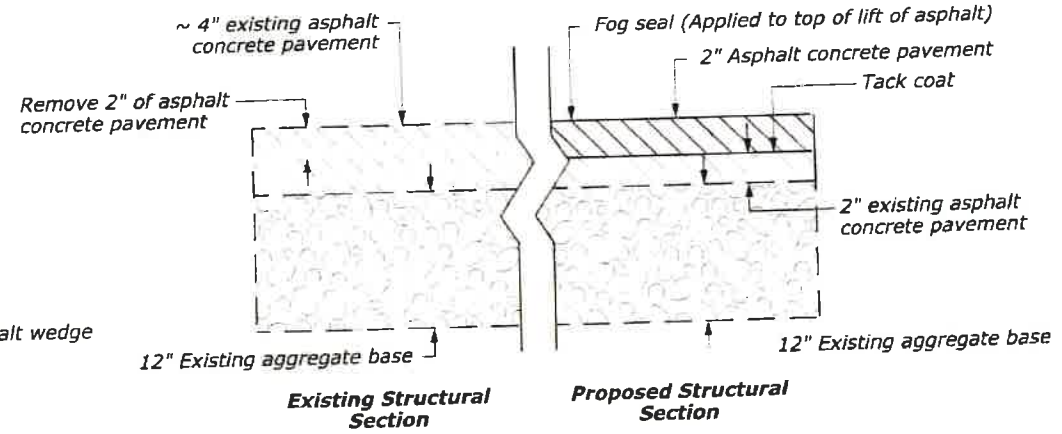
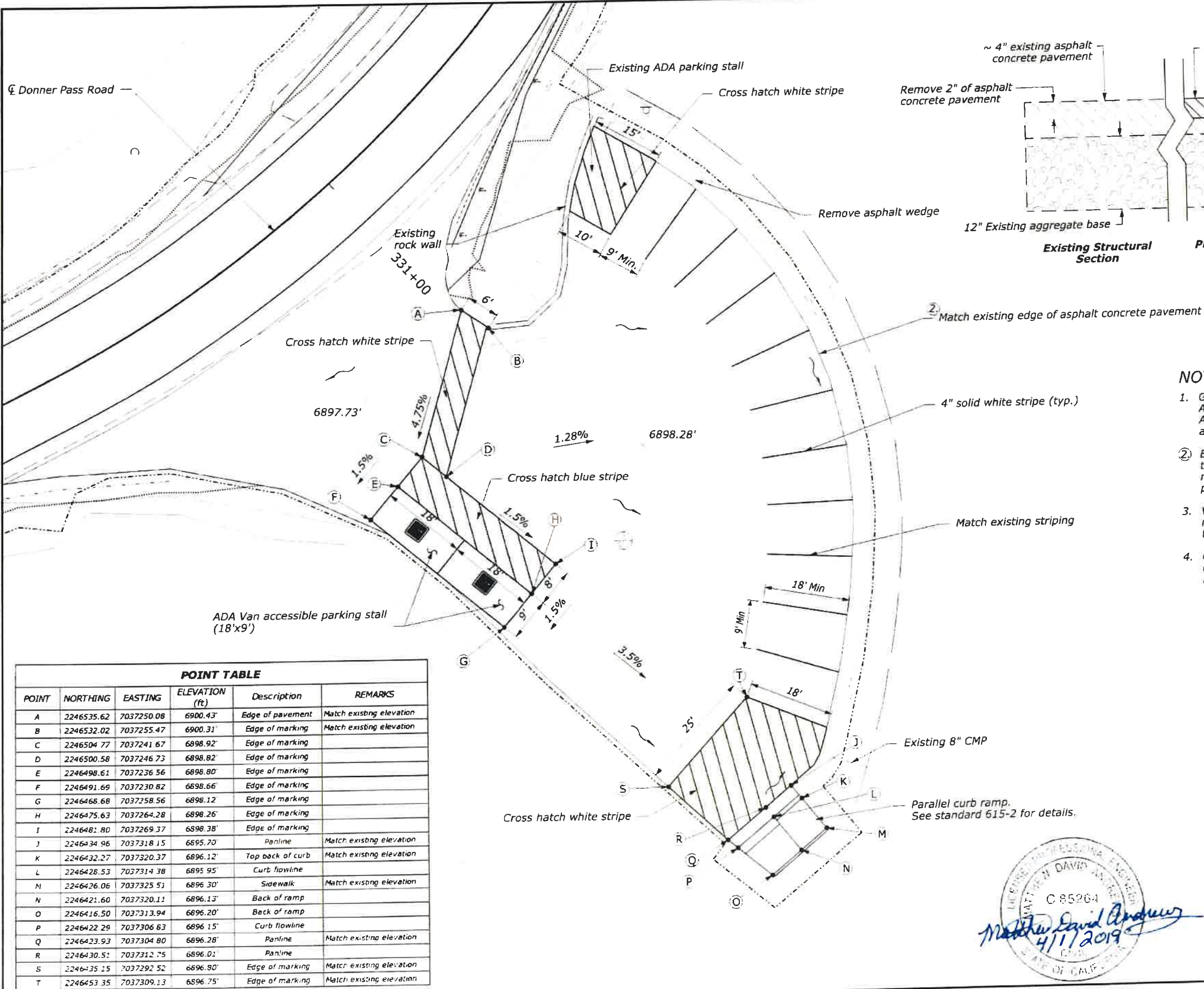


STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D1

User: mcarlson

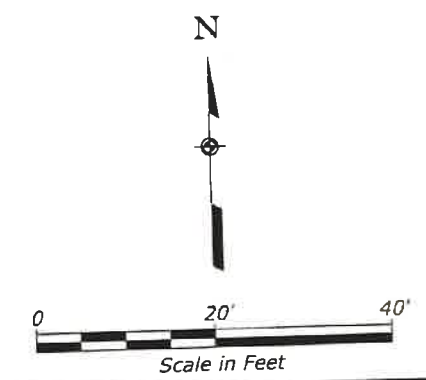
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3/22/2019



- NOTES:**
- Grades at existing ADA parking stall exceed ADA compliance. Spot elevations for points A-T are shown in the point table in order to achieve ADA compliance.
 - Existing concrete gutter and stone curb are to remain in place. Grade parking area to match existing edge of asphalt elevations at pan line.
 - Verify the layout of the pavement markings with the CO prior to performing the work.
 - Grades and elevations shown in areas outside of ADA spaces are approximate and are intended to provide general grading layout.

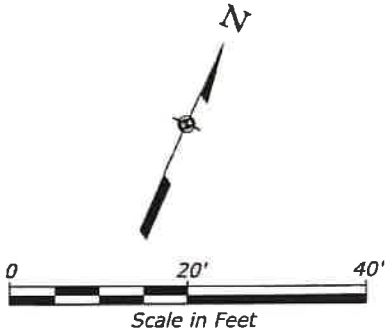
POINT TABLE					
POINT	NORTHING	EASTING	ELEVATION (ft)	Description	REMARKS
A	2246535.62	7037250.08	6900.43'	Edge of pavement	Match existing elevation
B	2246532.02	7037255.47	6900.31'	Edge of marking	Match existing elevation
C	2246504.77	7037241.67	6898.92'	Edge of marking	
D	2246500.58	7037246.73	6898.82'	Edge of marking	
E	2246498.61	7037236.56	6898.80'	Edge of marking	
F	2246491.69	7037230.82	6898.66'	Edge of marking	
G	2246468.68	7037258.56	6898.12'	Edge of marking	
H	2246475.63	7037264.28	6898.26'	Edge of marking	
I	2246481.80	7037269.37	6898.38'	Edge of marking	
J	2246434.96	7037318.15	6895.70'	Panline	Match existing elevation
K	2246432.27	7037320.37	6896.12'	Top back of curb	Match existing elevation
L	2246426.53	7037314.38	6895.95'	Curb flowline	
M	2246426.06	7037325.51	6896.30'	Sidewalk	Match existing elevation
N	2246421.60	7037320.11	6896.13'	Back of ramp	
O	2246416.50	7037313.94	6896.20'	Back of ramp	
P	2246422.29	7037306.63	6896.15'	Curb flowline	
Q	2246423.93	7037304.80	6896.28'	Panline	Match existing elevation
R	2246430.51	7037312.75	6896.01'	Panline	
S	2246435.15	7037292.52	6896.90'	Edge of marking	Match existing elevation
T	2246453.35	7037309.13	6896.75'	Edge of marking	Match existing elevation



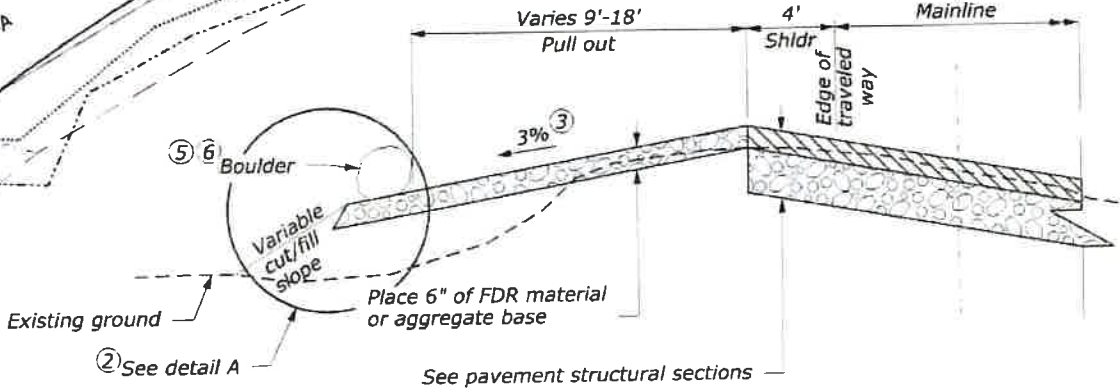
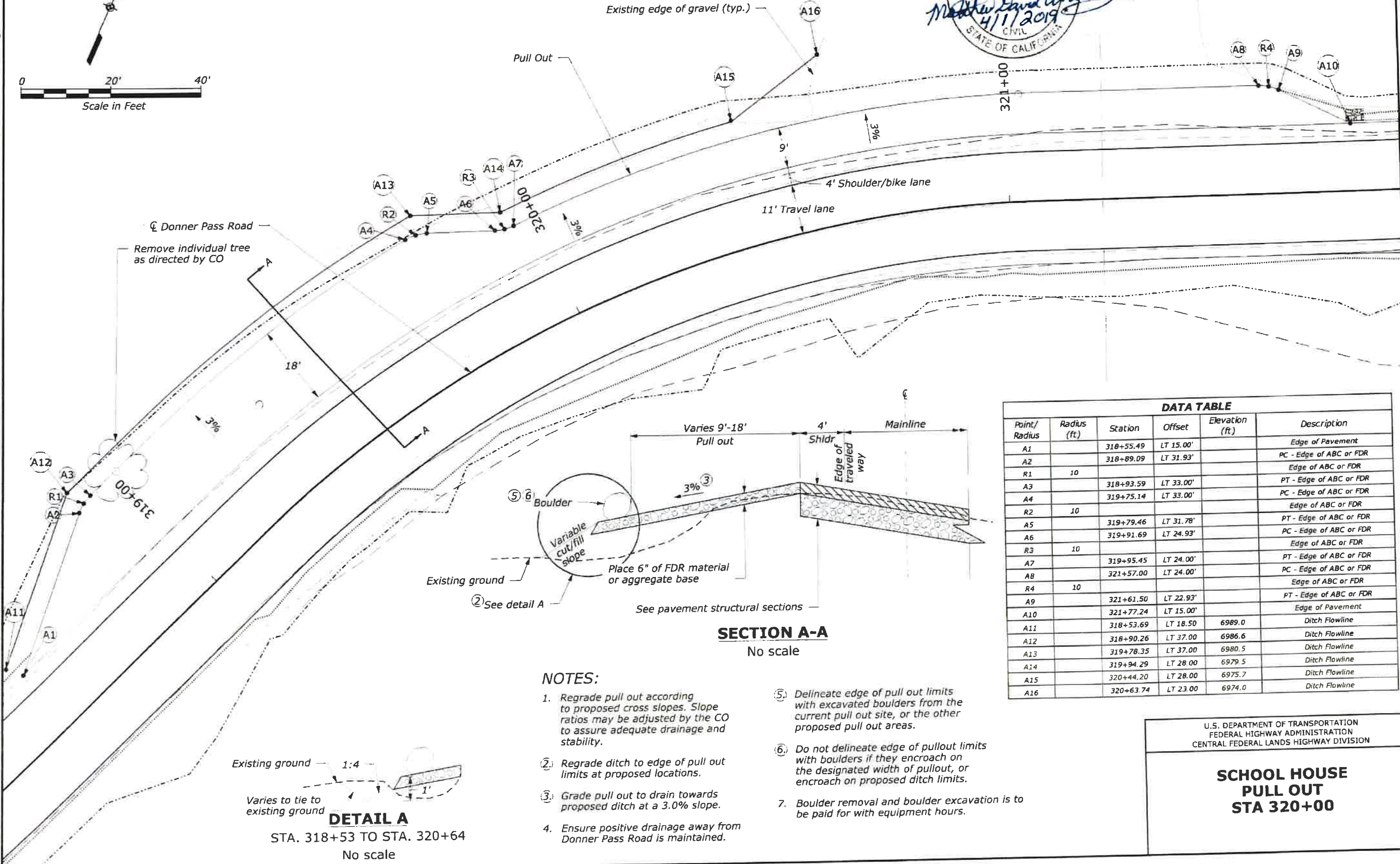
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**RAINBOW BRIDGE
PARKING AREA**

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D2



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SECTION A-A
No scale

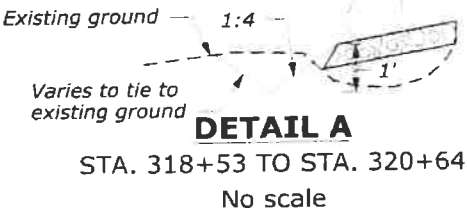
NOTES:

1. Regrade pull out according to proposed cross slopes. Slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. Regrade ditch to edge of pull out limits at proposed locations.
3. Grade pull out to drain towards proposed ditch at a 3.0% slope.
4. Ensure positive drainage away from Donner Pass Road is maintained.
5. Delineate edge of pull out limits with excavated boulders from the current pull out site, or the other proposed pull out areas.
6. Do not delineate edge of pullout limits with boulders if they encroach on the designated width of pullout, or encroach on proposed ditch limits.
7. Boulder removal and boulder excavation is to be paid for with equipment hours.

DATA TABLE					
Point/ Radius	Radius (ft.)	Station	Offset	Elevation (ft.)	Description
A1		318+55.49	LT 15.00'		Edge of Pavement
A2		318+89.09	LT 31.93'		PC - Edge of ABC or FDR
R1	10				Edge of ABC or FDR
A3		318+93.59	LT 33.00'		PT - Edge of ABC or FDR
A4		319+75.14	LT 33.00'		PC - Edge of ABC or FDR
R2	10				Edge of ABC or FDR
A5		319+79.46	LT 31.78'		PT - Edge of ABC or FDR
A6		319+91.69	LT 24.93'		PC - Edge of ABC or FDR
R3	10				Edge of ABC or FDR
A7		319+95.45	LT 24.00'		PT - Edge of ABC or FDR
A8		321+57.00	LT 24.00'		PC - Edge of ABC or FDR
R4	10				Edge of ABC or FDR
A9		321+61.50	LT 22.93'		PT - Edge of ABC or FDR
A10		321+77.24	LT 15.00'		Edge of Pavement
A11		318+53.69	LT 18.50	6989.0	Ditch Flowline
A12		318+90.26	LT 37.00	6986.6	Ditch Flowline
A13		319+78.35	LT 37.00	6980.5	Ditch Flowline
A14		319+94.29	LT 28.00	6979.5	Ditch Flowline
A15		320+44.20	LT 28.00	6975.7	Ditch Flowline
A16		320+63.74	LT 23.00	6974.0	Ditch Flowline

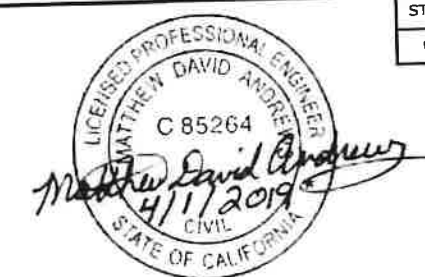
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

SCHOOL HOUSE
PULL OUT
STA 320+00

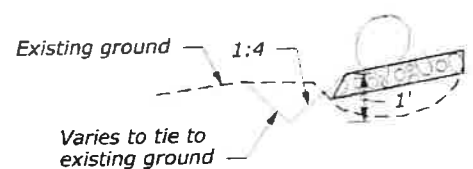
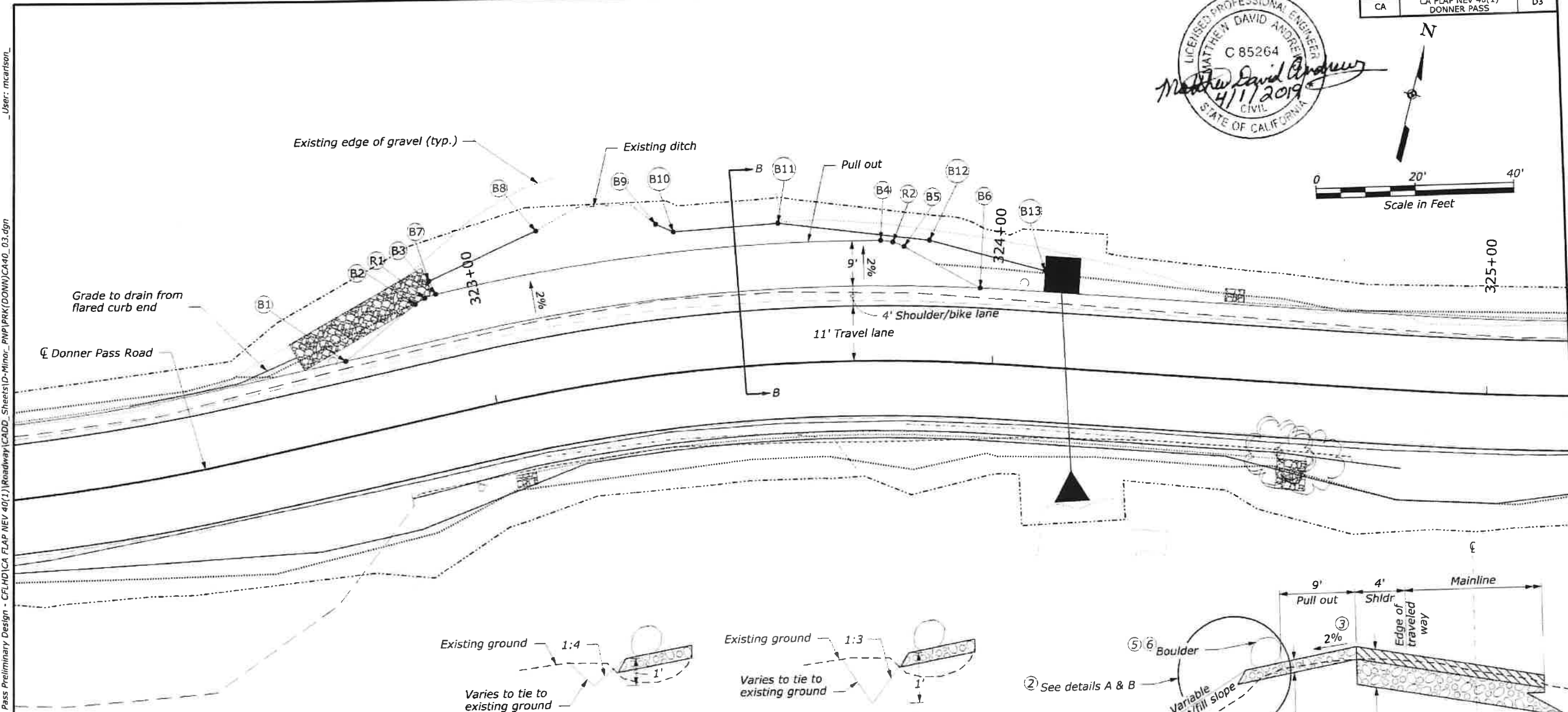
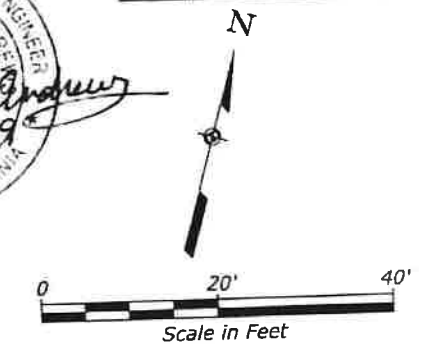


DETAIL A

STA. 318+53 TO STA. 320+64
No scale

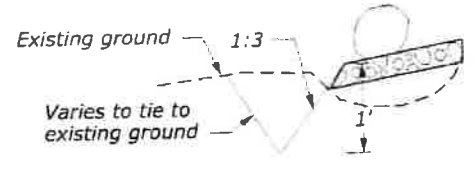


STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D3



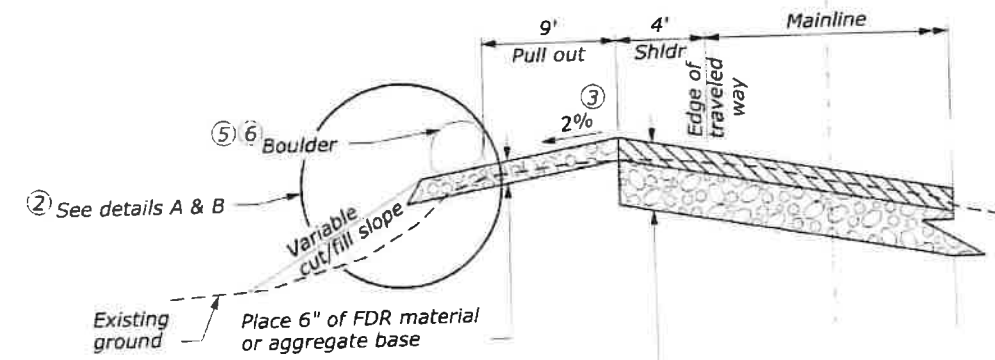
DETAIL A

STA. 322+92 TO STA. 323+14
STA. 323+35 TO STA. 323+58
STA. 323+87 TO STA. 324+10
No scale



DETAIL B

STA. 323+58 TO STA. 323+87
No scale



SECTION B-B

No scale

NOTES:

1. Regrade pull out according to proposed cross slopes. Slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. Regrade ditch to edge of pull out limits at proposed locations.
3. Grade pull out to drain towards proposed ditch at a 2.0% slope.
4. Ensure positive drainage away from Donner Pass Road is maintained.

5. Delineate edge of pull out limits with excavated boulders from the current pull out site, or the other proposed pull out areas.
6. Do not delineate edge of pullout limits with boulders if they encroach on the designated width of pullout, or encroach on proposed ditch limits.
7. Boulder removal and boulder excavation is to be paid for with equipment hours.

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**STAR WALL
PULL OUT
STA 323+00**

DATA TABLE

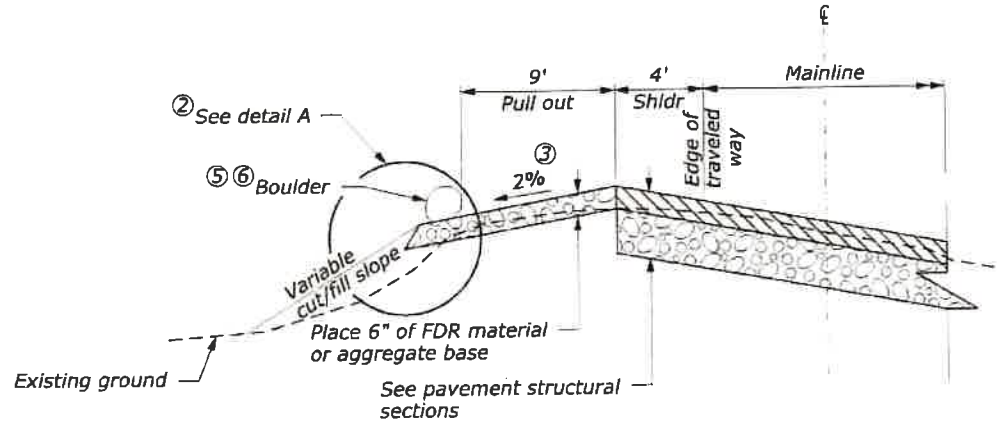
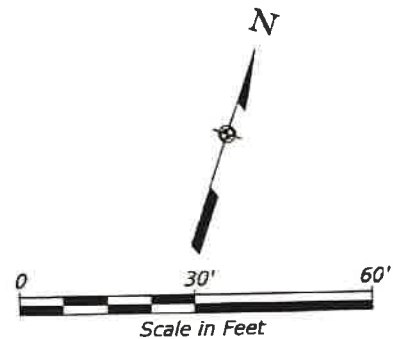
POINT/ RADIUS	RADIUS (FT)	STATION	OFFSET	ELEVATION (FT)	DESCRIPTION
B1		322+72.58	LT 15.00'		Edge of ABC or FDR
B2		322+88.39	LT 22.93'		PC - Edge of ABC or FDR
R1	10				Edge of ABC or FDR
B3		322+92.79	LT 24.00'		PT - Edge of ABC or FDR
B4		323+77.52	LT 24.00'		PC - Edge of ABC or FDR
R2	10				Edge of ABC or FDR
B5		323+80.00	LT 22.82'		PT - Edge of ABC or FDR
B6		323+96.83	LT 15.00'		Edge of ABC or FDR
B7		322+92.04	LT 26.85'	6956.8	Ditch Flowline
B8		323+13.42	LT 32.17'	6956.0	Ditch Flowline
B9		323+35.56	LT 29.92'	6954.0	Ditch Flowline
B10		323+38.66	LT 28.00'	6953.9	Ditch Flowline
B11		323+58.22	LT 28.00'	6952.6	Ditch Flowline
B12		323+86.77	LT 24.13'	6950.4	Ditch Flowline
B13		324+09.40	LT 19.19'	6948.4	Ditch Flowline

User: mcarlson

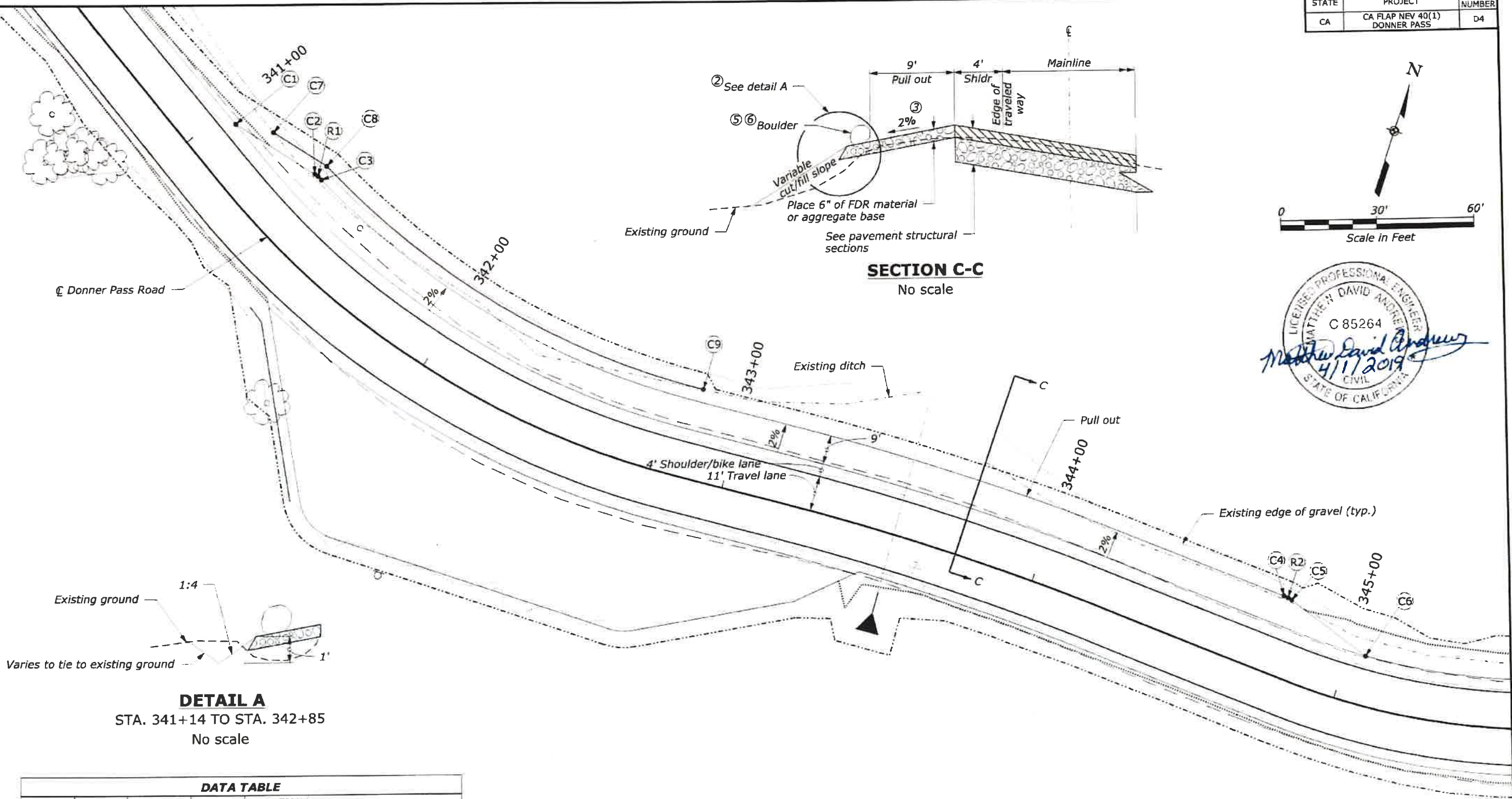
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STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D4



SECTION C-C
No scale



DETAIL A
STA. 341+14 TO STA. 342+85
No scale

DATA TABLE					
POINT/ RADIUS	RADIUS (FT)	STATION	OFFSET	ELEVATION (FT)	DESCRIPTION
C1		341+05.11	LT 15.00'		Edge of ABC or FDR
C2		341+33.87	LT 23.68'		PC - Edge of ABC or FDR
R1	10				Edge of ABC or FDR
C3		341+36.59	LT 24.00'		PT - Edge of ABC or FDR
C4		344+74.35	LT 24.00'		PC - Edge of ABC or FDR
R2	10				Edge of ABC or FDR
C5		344+77.00	LT 23.64'		PT - Edge of ABC or FDR
C6		345+06.18	LT 15.00'		Edge of ABC or FDR
C7		341+14.36	LT 22.34'	6826.3	Ditch Flowline
C8		341+34.65	LT 28.00'	6824.6	Ditch Flowline
C9		342+86.82	LT 28.00'	6614.0	Ditch Flowline

- NOTES:**
1. Regrade pull out according to proposed cross slopes. Slope ratios may be adjusted by the CO to assure adequate drainage and stability.
 2. Regrade ditch to edge of pull out limits at proposed locations.
 3. Grade pull out to drain towards proposed ditch at a 2.0% slope.
 4. Ensure positive drainage away from Donner Pass Road is maintained.
 5. Delineate edge of pull out limits with excavated boulders from the current pull out site, or the other proposed pull out areas.
 6. Do not delineate edge of pullout limits with boulders if they encroach on the designated width of pullout, or encroach on proposed ditch limits.
 7. Boulder removal and boulder excavation is to be paid for with equipment hours.

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SNOWSHED NORTH
PULL OUT
STA 343+00**

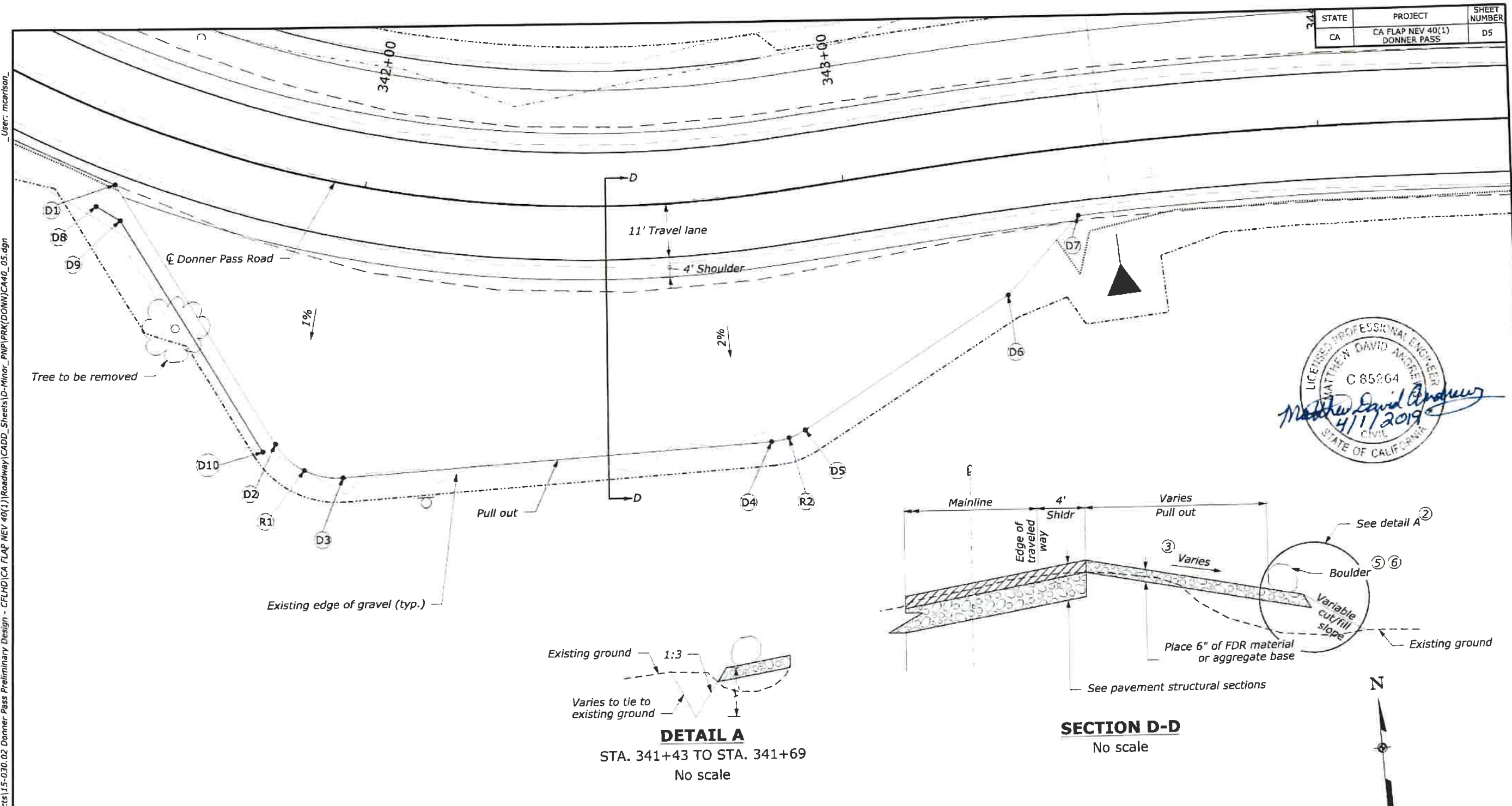
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3/21/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D5



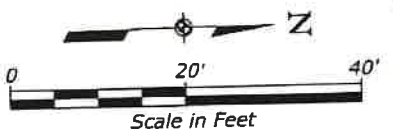
DATA TABLE					
POINT/ RADIUS	RADIUS (FT)	STATION	OFFSET	ELEVATION (FT)	DESCRIPTION
D1		341+51.09	RT 13.23'		Edge of ABC or FDR
D2		341+92.75	RT 55.25'		PC - Edge of ABC or FDR
R1	15				Edge of ABC or FDR
D3		342+05.02	RT 59.62'		PT - Edge of ABC or FDR
D4		342+78.50	RT 50.82'		PC - Edge of ABC or FDR
R2	15				Edge of ABC or FDR
D5		342+84.56	RT 49.39'		PT - Edge of ABC or FDR
D6		343+30.88	RT 28.27'		Edge of ABC or FDR
D7		343+47.96	RT 14.00'		Edge of ABC or FDR
D8		341+49.20	RT 18.75'	6826.0	Ditch Flowline
D9		341+54.50	RT 19.75'	6825.5	Ditch Flowline
D10		341+91.0	RT 57.33'	6821.6	Ditch Flowline

- NOTES:**
1. Regrade pull out according to proposed cross slopes. Slope ratios may be adjusted by the CO to assure adequate drainage and stability.
 2. Regrade ditch to edge of pull out limits at proposed locations.
 3. Grade pull out to drain towards proposed ditch at a 1.0% minimum slope.
 4. Ensure positive drainage away from Donner Pass Road is maintained.
 5. Delineate edge of pull out limits with excavated boulders from the current pull out site, or the other proposed pull out areas.
 6. Do not delineate edge of pullout limits with boulders if they encroach on the designated width of pullout, or encroach on proposed ditch limits.
 7. Boulder removal and boulder excavation is to be paid for with equipment hours.

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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SNOWSHED SOUTH
PULL OUT
STA 342+50**

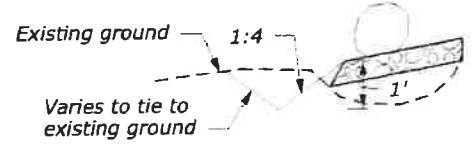
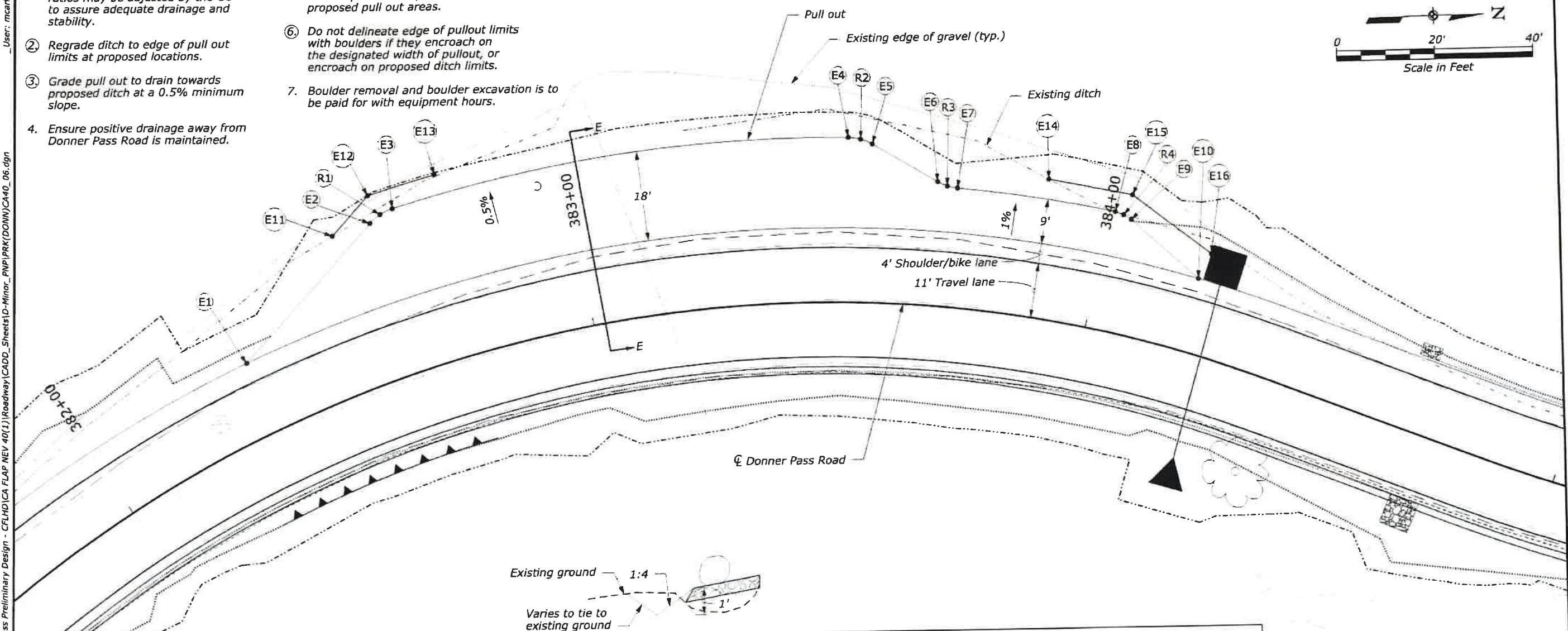
STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D6



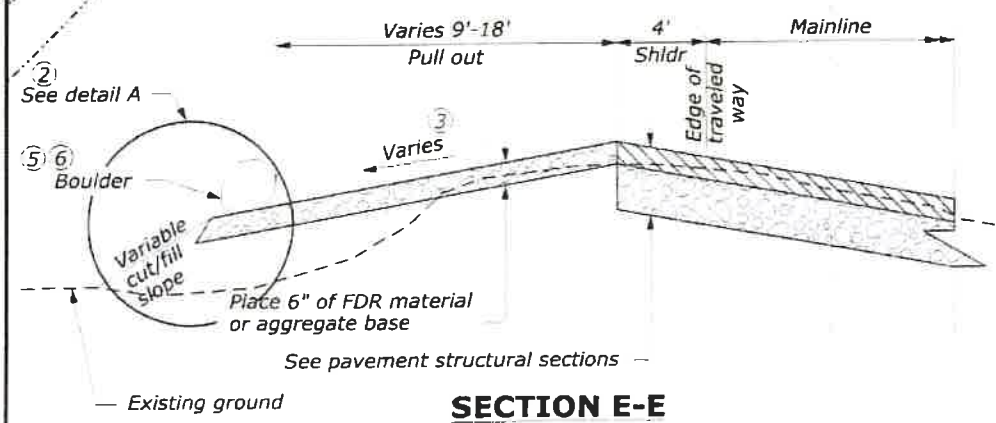
NOTES:

1. Regrade pull out according to proposed cross slopes. Slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. Regrade ditch to edge of pull out limits at proposed locations.
3. Grade pull out to drain towards proposed ditch at a 0.5% minimum slope.
4. Ensure positive drainage away from Donner Pass Road is maintained.
5. Delineate edge of pull out limits with excavated boulders from the current pull out site, or the other proposed pull out areas.
6. Do not delineate edge of pullout limits with boulders if they encroach on the designated width of pullout, or encroach on proposed ditch limits.
7. Boulder removal and boulder excavation is to be paid for with equipment hours.

User: mcarlson
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7:19:52 AM 3/21/2019



DETAIL A
STA. 382+57 TO STA. 382+77
STA. 383+88 TO STA. 384+21
No scale



SECTION E-E
No scale

DATA TABLE					
Point/ Radius	Radius (ft)	Station	Offset	Elevation (ft)	Description
E1		382+33.56	LT 15.00'		Edge of ABC or FDR
E2		382+64.09	LT 31.62'		PC - Edge of ABC or FDR
R1	10				Edge of ABC or FDR
E3		382+68.66	LT 33.00'		PT - Edge of ABC or FDR
E4		383+51.34	LT 33.00'		PC - Edge of ABC or FDR
R2	10				Edge of ABC or FDR
E5		383+55.65	LT 31.78'		PT - Edge of ABC or FDR
E6		383+67.88	LT 24.93'		PC - Edge of ABC or FDR
R3	10				Edge of ABC or FDR
E7		383+71.65	LT 24.00'		PT - Edge of ABC or FDR
E8		384+00.52	LT 24.00'		PC - Edge of ABC or FDR
R4	10				Edge of ABC or FDR
E9		384+04.38	LT 23.11'		PT - Edge of ABC or FDR
E10		384+19.59	LT 15.00'		Edge of ABC or FDR
E11		382+56.97	LT 31.73'	6546.4	Ditch Flowline
E12		382+65.24	LT 37.00'	6545.8	Ditch Flowline
E13		382+77.30	LT 37.00'	6545.0	Ditch Flowline
E14		383+88.19	LT 28.00'	6536.5	Ditch Flowline
E15		384+03.69	LT 28.00'	6534.9	Ditch Flowline
E16		384+20.58	LT 20.54'	6533.0	Ditch Flowline



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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

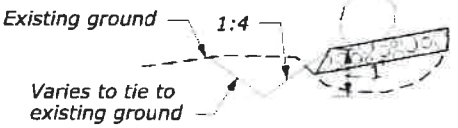
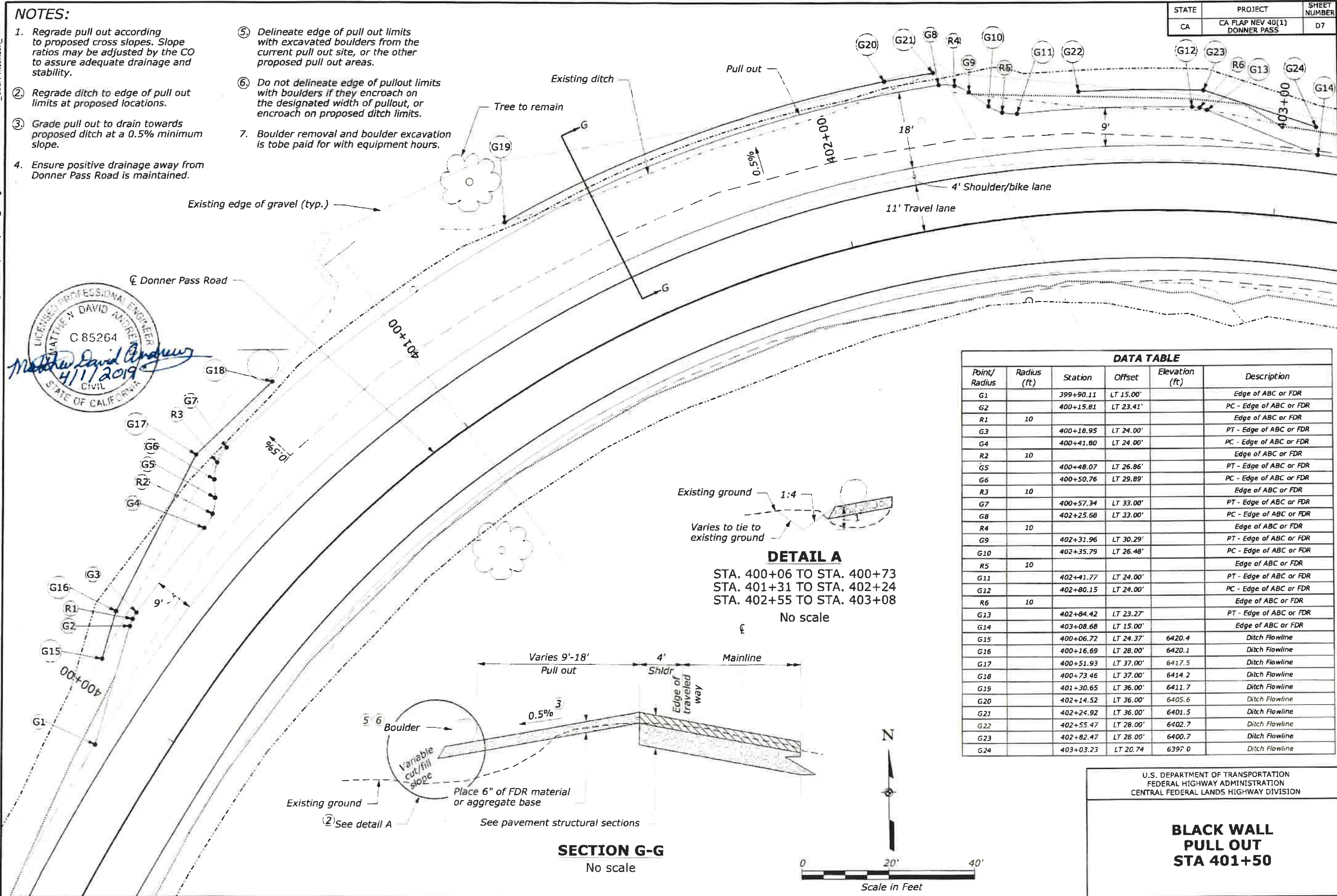
**SPACE WALL
PULL OUT
STA 383+00**

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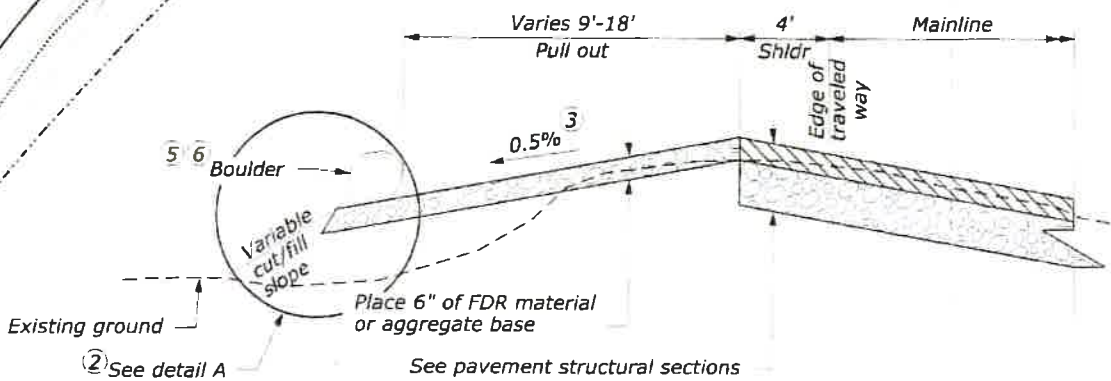
NOTES:

1. Regrade pull out according to proposed cross slopes. Slope ratios may be adjusted by the CO to assure adequate drainage and stability.
2. Regrade ditch to edge of pull out limits at proposed locations.
3. Grade pull out to drain towards proposed ditch at a 0.5% minimum slope.
4. Ensure positive drainage away from Donner Pass Road is maintained.
5. Delineate edge of pull out limits with excavated boulders from the current pull out site, or the other proposed pull out areas.
6. Do not delineate edge of pullout limits with boulders if they encroach on the designated width of pullout, or encroach on proposed ditch limits.
7. Boulder removal and boulder excavation is to be paid for with equipment hours.

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D7



DETAIL A
STA. 400+06 TO STA. 400+73
STA. 401+31 TO STA. 402+24
STA. 402+55 TO STA. 403+08
No scale



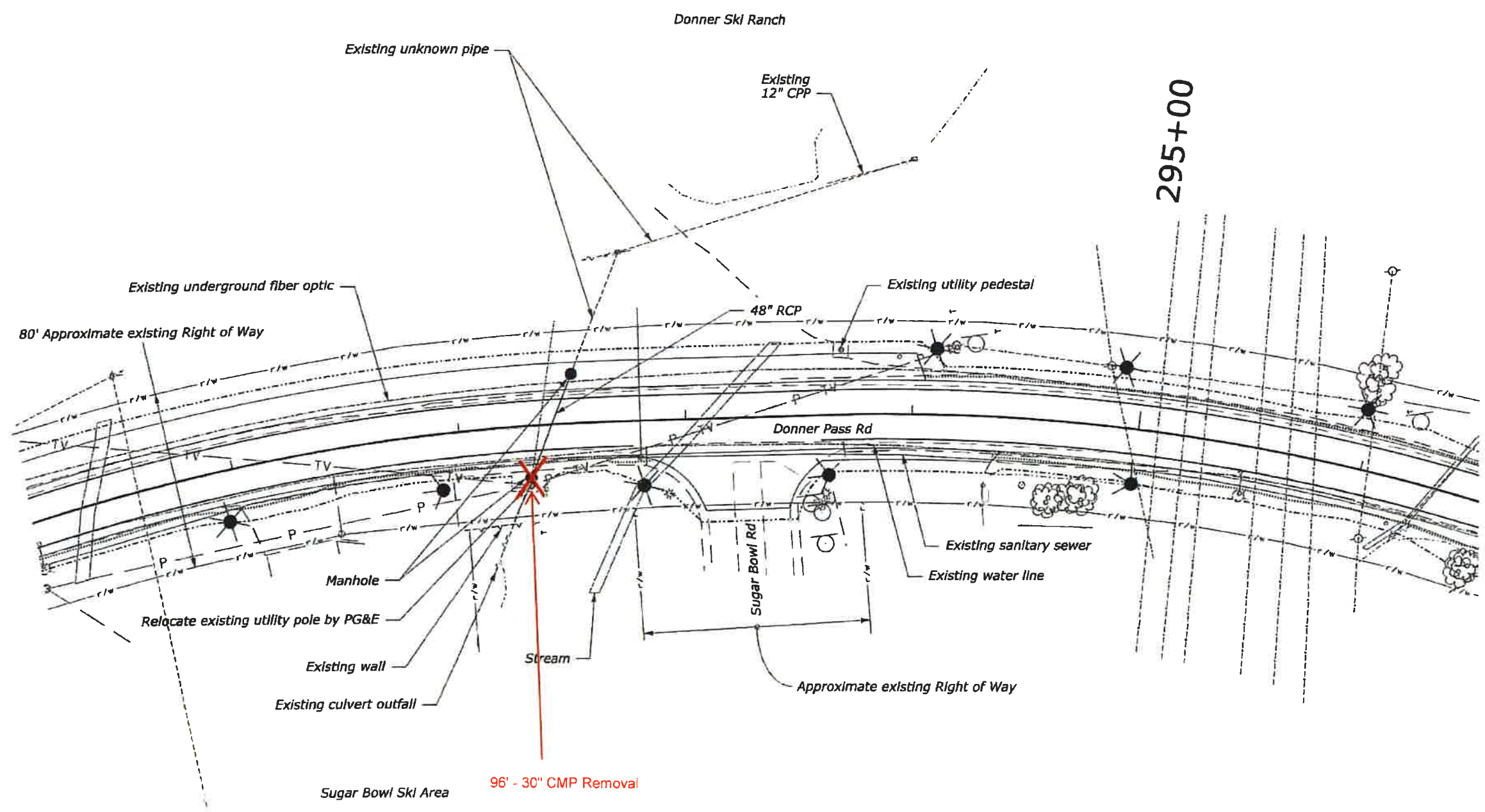
SECTION G-G
No scale

DATA TABLE					
Point/ Radius	Radius (ft)	Station	Offset	Elevation (ft)	Description
G1		399+90.11	LT 15.00'		Edge of ABC or FDR
G2		400+15.81	LT 23.41'		PC - Edge of ABC or FDR
R1	10				Edge of ABC or FDR
G3		400+18.95	LT 24.00'		PT - Edge of ABC or FDR
G4		400+41.80	LT 24.00'		PC - Edge of ABC or FDR
R2	10				Edge of ABC or FDR
G5		400+48.07	LT 26.86'		PT - Edge of ABC or FDR
G6		400+50.76	LT 29.89'		PC - Edge of ABC or FDR
R3	10				Edge of ABC or FDR
G7		400+57.34	LT 33.00'		PT - Edge of ABC or FDR
G8		402+25.68	LT 33.00'		PC - Edge of ABC or FDR
R4	10				Edge of ABC or FDR
G9		402+31.96	LT 30.29'		PT - Edge of ABC or FDR
G10		402+35.79	LT 26.48'		PC - Edge of ABC or FDR
R5	10				Edge of ABC or FDR
G11		402+41.77	LT 24.00'		PT - Edge of ABC or FDR
G12		402+80.15	LT 24.00'		PC - Edge of ABC or FDR
R6	10				Edge of ABC or FDR
G13		402+84.42	LT 23.27'		PT - Edge of ABC or FDR
G14		403+08.68	LT 15.00'		Edge of ABC or FDR
G15		400+06.72	LT 24.37'	6420.4	Ditch Flowline
G16		400+16.69	LT 28.00'	6420.1	Ditch Flowline
G17		400+51.93	LT 37.00'	6417.5	Ditch Flowline
G18		400+73.46	LT 37.00'	6414.2	Ditch Flowline
G19		401+30.65	LT 36.00'	6411.7	Ditch Flowline
G20		402+14.52	LT 36.00'	6405.6	Ditch Flowline
G21		402+24.92	LT 36.00'	6401.5	Ditch Flowline
G22		402+55.47	LT 28.00'	6402.7	Ditch Flowline
G23		402+82.47	LT 28.00'	6400.7	Ditch Flowline
G24		403+03.23	LT 20.74	6397.0	Ditch Flowline

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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

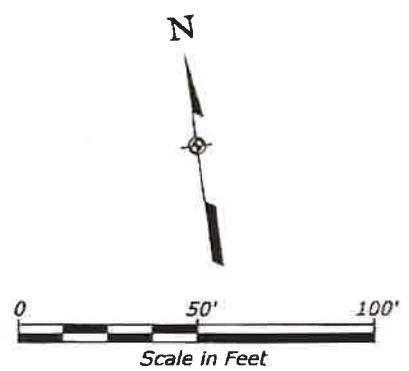
**BLACK WALL
PULL OUT
STA 401+50**

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	D8



- 96' - 30" CMP Removal
- 48" - 48" RCP Install
- Eliminate Manhole RT
- Remove 2 Headwalls

LICENSED PROFESSIONAL ENGINEER
 MATTHEW DAVID ANDREWS
 C 85264
Matthew David Andrews
 8/26/2019
 CIVIL
 STATE OF CALIFORNIA



U.S. DEPARTMENT OF TRANSPORTATION
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 CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**DONNER SKI RANCH
 STORM SYSTEM STA 293+31**
 Sheet 1 of 1

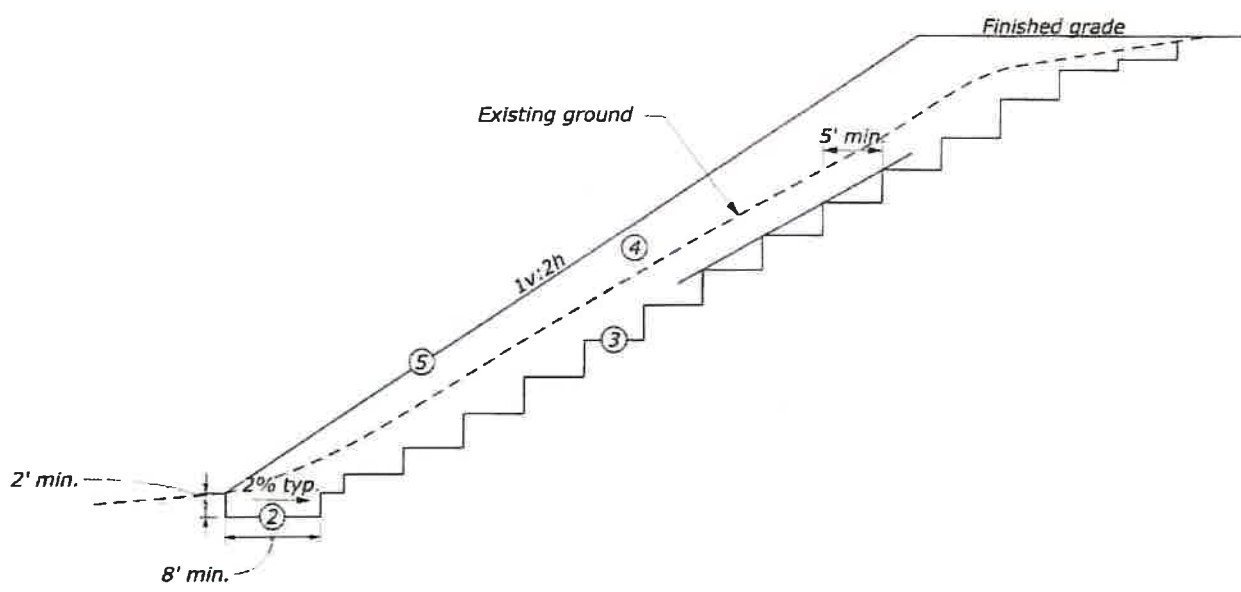
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User: jcravens

8:26:28 AM Z:\Projects - Gravel\217-306 Muller - CFL Donner Pass Rd\1.01 CAD Drawings\Plan Sheets\Embankment Benching\217-306 Embankment Benching.dgn

3/15/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	F1



EMBANKMENT WIDENING/RECONSTRUCTION

- Notes:**
- 1. Benching is not required for ground slope at 1V:5H or flatter.
 - 2. Excavate toe key into firm and competent material to 2' below proposed toe of embankment and 8' minimum width.
 - 3. Key and bench into existing embankment such that the outer 5' of existing slope is removed. Excavate beyond 5' horizontally to remove existing side-cast fill, loose and eroded soil when directed by CO.
 - 4. Place compacted fill per FP-14. Work material removed during keying and benching into fill being placed.
 - 5. Overbuild slope and cut back to expose compacted fill at finish grade.
 - 6. Final station limits and conformance to existing slopes will be made by the CO based on field conditions.

Jonathan Blum

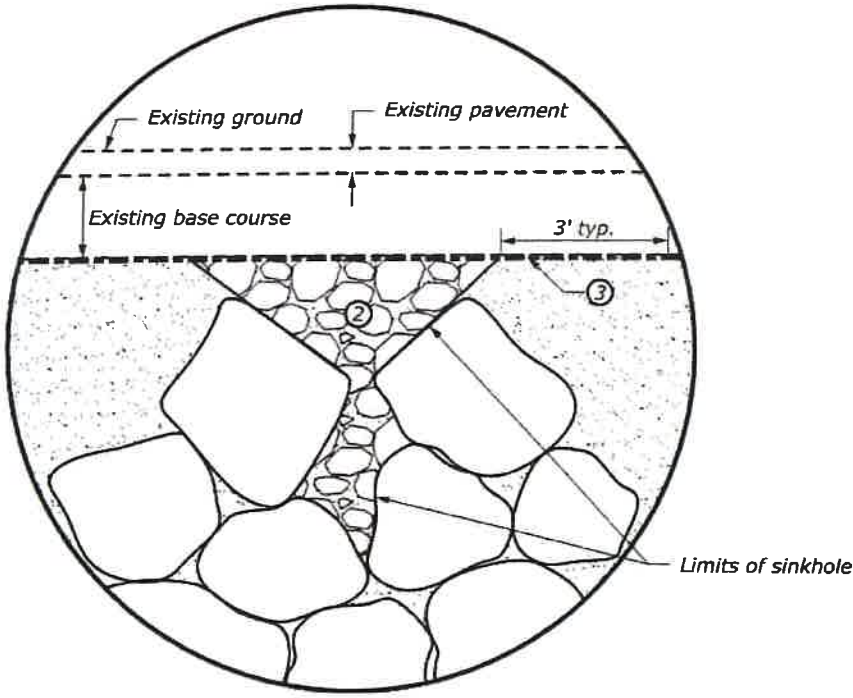
NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

EMBANKMENT BENCHING

UFS PMS NO.: XXXX DRAWING NO.: XXX-XXXX

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	F2



DETAIL A

NOTES:

SINKHOLE PATCHING:

1. Sinkholes and voids may develop in subgrade during pulverization and subgrade preparation in pavement areas constructed on the existing rock fill. Fill and stabilize sink holes and voids when called for by CO per Detail A.
2. Fill void with Class I Rock and/or Rock Mulch.
3. Place Class I Geotextile, Type E, to minimum 3 feet beyond surface limits of void.
4. Place roadway structural section per Typical Sections for location.

Jonathan Blum

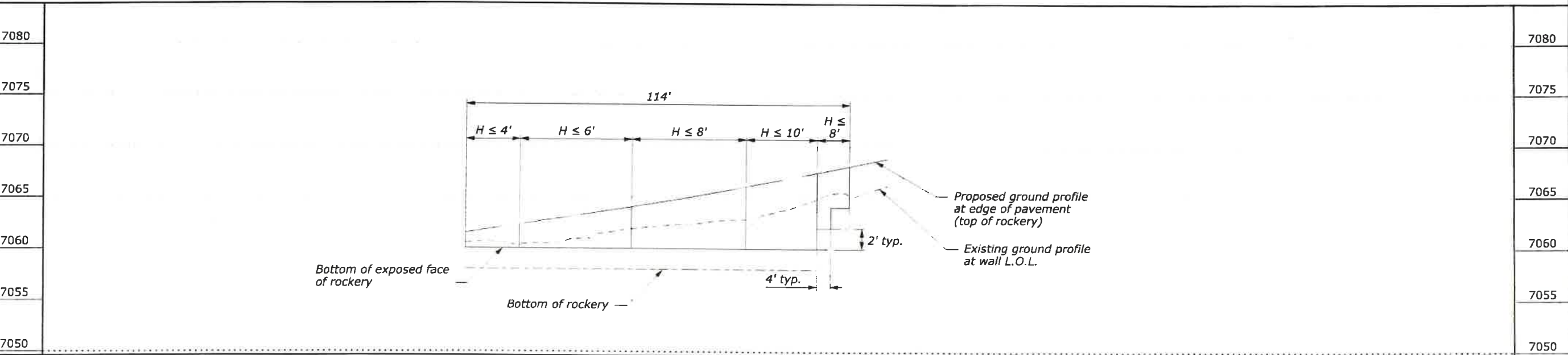
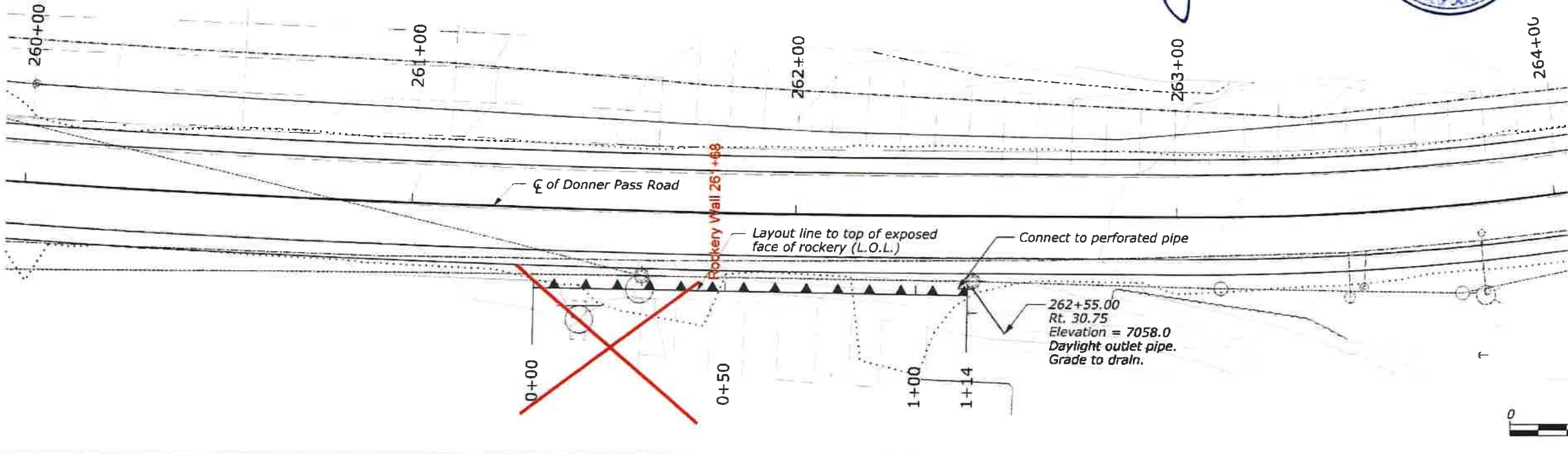
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION CENTRAL FEDERAL LANDS HIGHWAY DIVISION U.S. CUSTOMARY SPECIAL	
SINKHOLE PATCHING DETAIL	
No Scale	SPECIAL 204-A

User: jcravens

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3/28/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP NEV 40(1) DONNER PASS	G1



U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

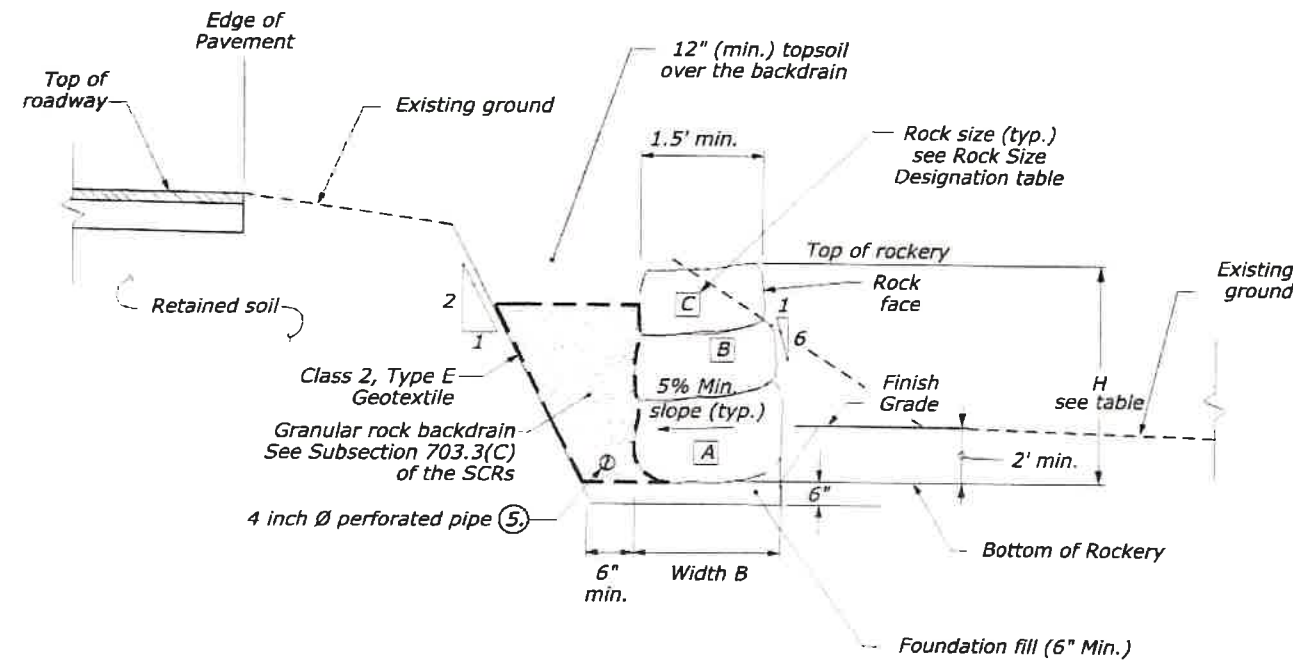
ROCKERY WALL LAYOUT

User: jcravens

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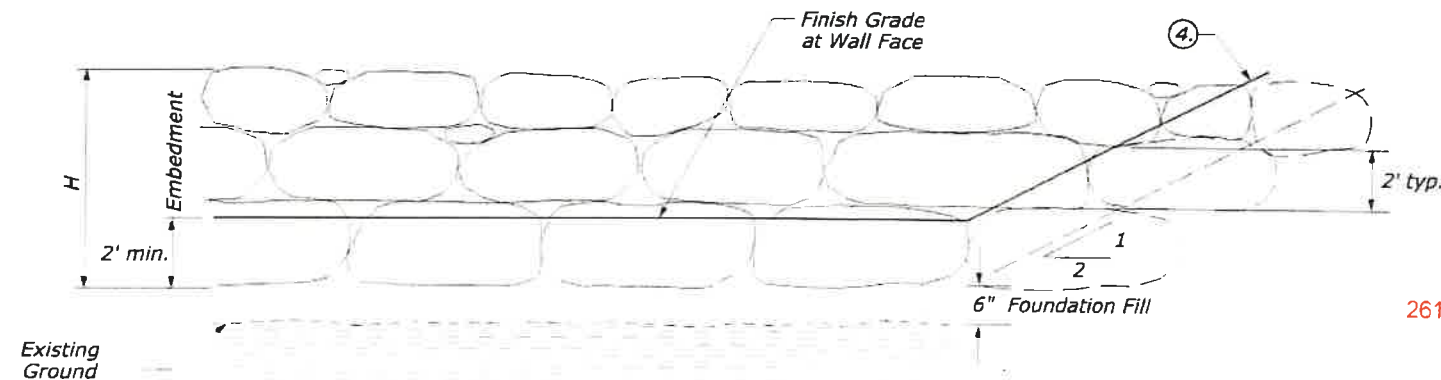
2/26/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G2



TYPICAL SECTION

Station ~~261+22~~ to 262+36
261+68



TYPICAL ELEVATION

ROCK SIZE DESIGNATION							
Wall Height (H)	A	B	C	D	E	F	Width, B (ft)
≤4'	2	2	-	-	-	-	2.0
≤6'	3	2	2	-	-	-	2.5
≤8'	4	3	2	-	-	-	3.0
≤10'	4	3	2	1	-	-	3.0

ROCK SIZE		
Rock Size	Rock Weight (lb)	Average Dimension (ft)
1	45 to 200	1.0 to 1.5
2	200 to 650	1.5 to 2.5
3	650 to 2000	2.5 to 3.0
4	2000 to 4000	3.0 to 4.0

NOTE:

- Construct rockery and place base, facing, and cap rocks according to Section 252 of FP-14. Place each rock individually by equipment suitable for lifting, manipulating, and placing rocks of the size and shape specified. Ensure that each rock is firmly set and supported by underlying materials and adjacent rocks. Reposition or replace loose rocks.
- Place base, facing, and cap rocks so that their height dimension is not greater than their width. The longest dimension of the base, facing, and cap rocks is parallel to face of rockery. Cap rock should weigh at least 200 pounds and not be moveable by hand.
- Where loose, soft, or otherwise unsuitable foundation soil conditions are encountered, contact the CO for supplemental recommendations.
- Step bottom of rockery at no steeper than 1v:2h where profile of wall is sloped
- Discharge outlet pipes to a permanent drainage structure or ditch at low point in the rockery with a 4" Ø unperforated pipe outside limits of rockery.
- Do not construct rockeries or slopes exceeding the heights shown on the Rockery Design Table without prior written approval by the CO.
- Construct rockeries parallel to centerline of road unless otherwise noted.
- The actual limits and dimensions for Rockery construction may be adjusted by the CO to fit field conditions.
- Excavation, and Rockery backfill, will not be measured and paid for separately but shall be considered incidental to the work.
- Construct Rockery from onsite or off site rocks as approved by the CO.
- See sheet C13 for roadway alignment and profile.

ROCKERY DESIGN TABLE					
Station, C of Donner Pass Road	Offset to bottom of exposed face	Offset to top of exposed face	Elevation at bottom of exposed face	Elevation at top of exposed face	Height (H)
	ft	ft	ft	ft	ft
261+22	21.5	21	7,066	7,061.5	3.5
261+30	21.0	20.5	7,068	7,063	4.0
261+71	21.5	20.5	7,060	7,064	6.0
262+05	22.5	21.0	7,060	7,066	8.0
262+26	22.5	21.0	7,060	7,067.5	9.5
262+36	22.0	21.0	7,064	7,068	6.0

261+68

Jonathan Blum
REGISTERED PROFESSIONAL ENGINEER
No. 2312
CALIFORNIA
SCE 00000000

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

ROCKERY DETAIL
STATION ~~261+22~~ TO 262+36
261+68

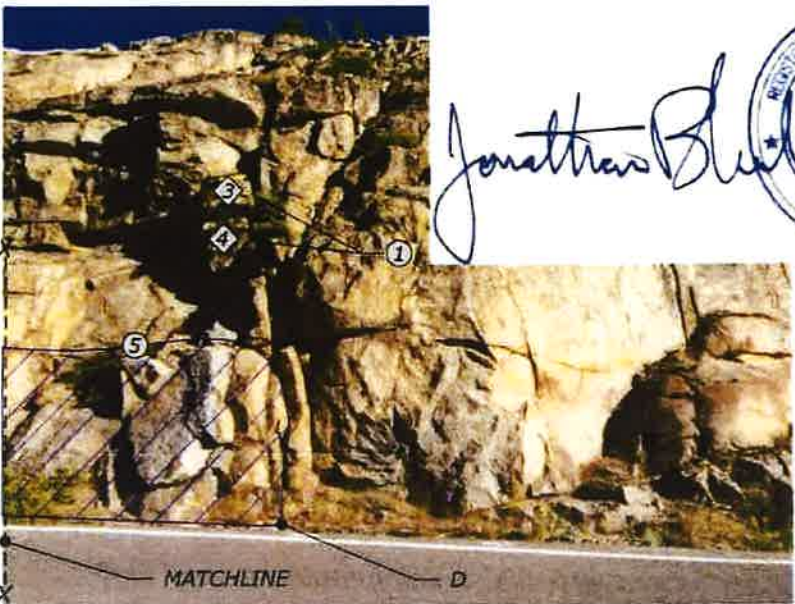
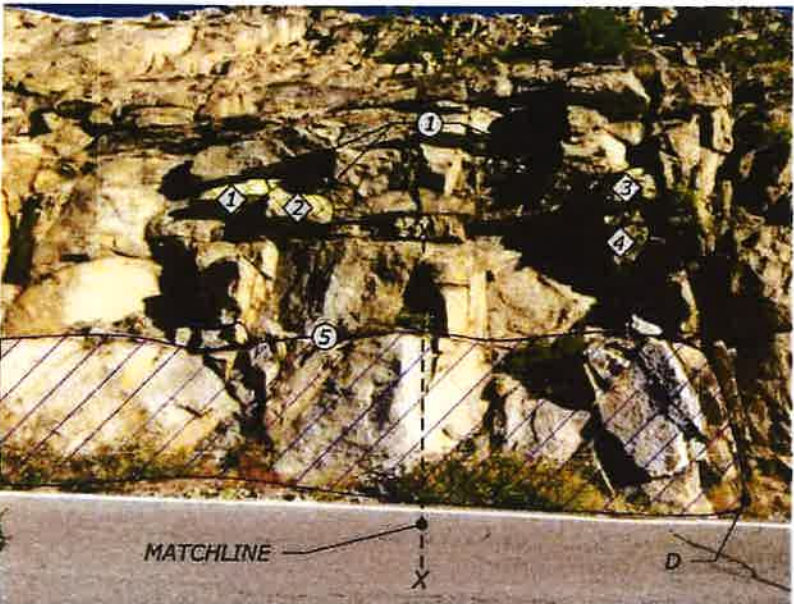
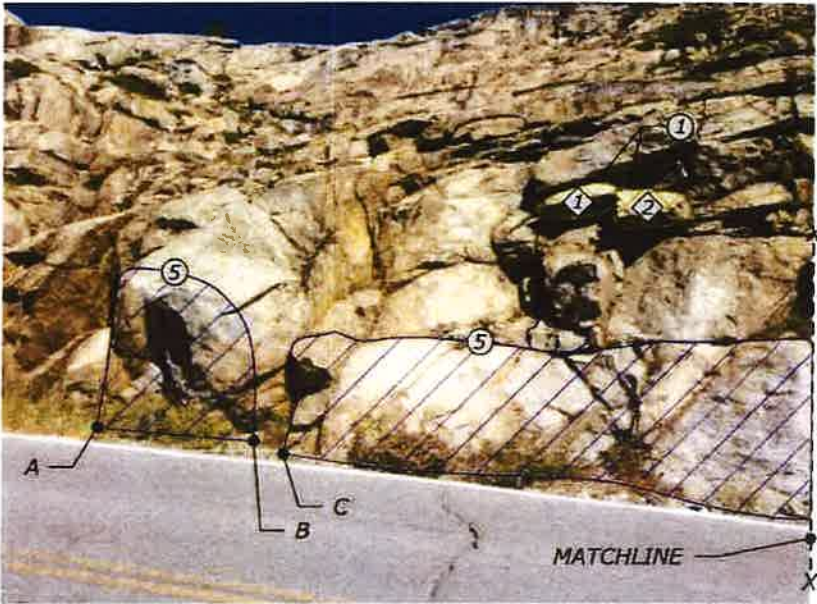
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User: jcravens

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3/13/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G3



Jonathan Blum
Professional Engineer
No. 2512
California
Civil

ROCK CUT LIMITS
Station 311+00 to 311+45



ROCK CUT LIMITS
Looking Upstation
Station 311+00 to 311+45



ROCK CUT LIMITS
Looking Downstation
Station 311+00 to 311+45

LEGEND:

-  Limits of Rock Excavation by Controlled Blasting
-  Limits of Rock Scaling
-  Rock or Block Number

NOTES:

- ① Rock to be inspected for removal by hand scaling techniques and to be removed if directed by the CO.
2. Limits of rock excavation and scaling may vary when directed by CO.
3. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
4. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ⑤ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
6. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.

STATION 311+00 TO 311+45							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
9	4	4	--	23	6	138	Granite

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 311+00 TO 311+45
ROCK CUT PLAN**

No Scale

User: jcravens

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3/13/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G4

Jonathan Blum
No. 2312



ROCK CUT LIMITS
Station 311+85 to 311+95



ROCK CUT LIMITS
Looking Upstation
Station 311+85 to 311+95

LEGEND:



Limits of Rock Excavation by Controlled Blasting



Limits of Rock Scaling

NOTES:

- Limits of rock excavation and scaling may vary when directed by CO.
- "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
- "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ④ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
- Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.



ROCK CUT LIMITS
Looking Downstation
Station 311+85 to 311+95

STATION 311+85 TO 311+95							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
2	3	--	--	5	6	30	Granite

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

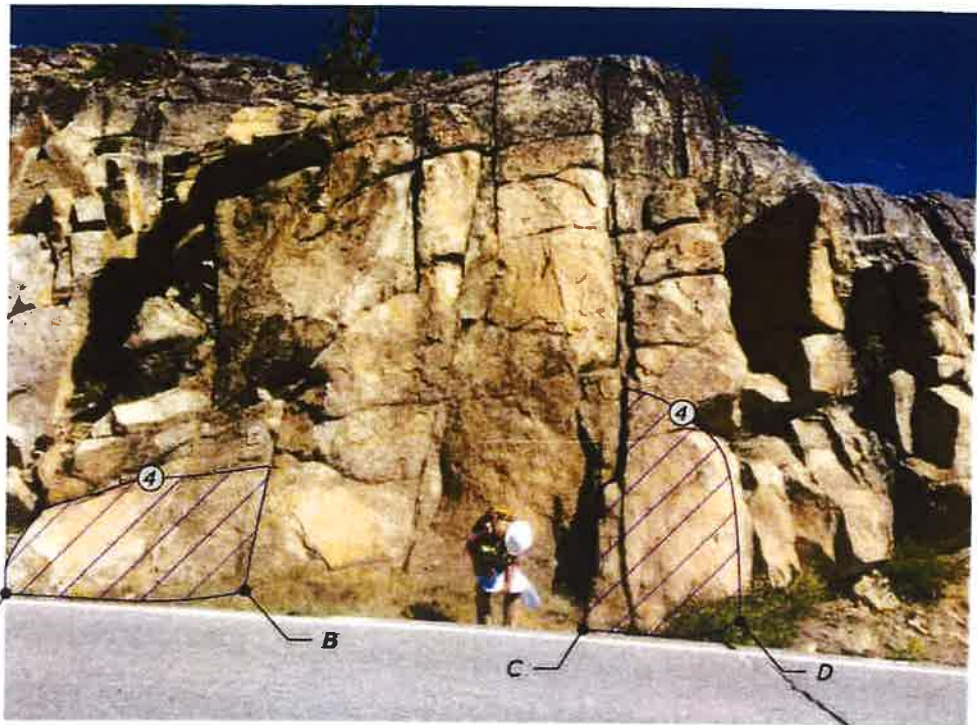
**STATION 311+85 TO 311+95
ROCK CUT PLAN**

No Scale

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	GS



Jonathan Blum



ROCK CUT LIMITS
Station 312+30 to 312+36



ROCK CUT LIMITS
Looking Upstation
Station 312+30 to 312+36



ROCK CUT LIMITS
Looking Upstation
Station 312+30 to 312+36

LEGEND:



Limits of Rock Excavation by Controlled Blasting

NOTES:

1. Limits of rock excavation may vary when directed by CO.
2. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
3. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ④ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
5. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.

STATION 312+30 TO 312+36							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
2	--	--	--	5	6	30	Granite

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 312+30 TO 312+36
ROCK CUT PLAN**

No Scale

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G6



ROCK CUT LIMITS
Station 314+09 to 314+20



ROCK CUT LIMITS
Looking Upstation
Station 314+09 to 314+20

Jonathan Blum

REGISTERED PROFESSIONAL ENGINEER
No. 2512
EXPIRATION DATE 12/31/2020

LEGEND:



Limits of Rock Excavation by Controlled Blasting

NOTES:

1. Limits of rock excavation may vary when directed by CO.
2. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
3. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ④ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
5. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.

STATION 314+09 TO 314+20							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
2	--	--	--	2	3	6	Granite

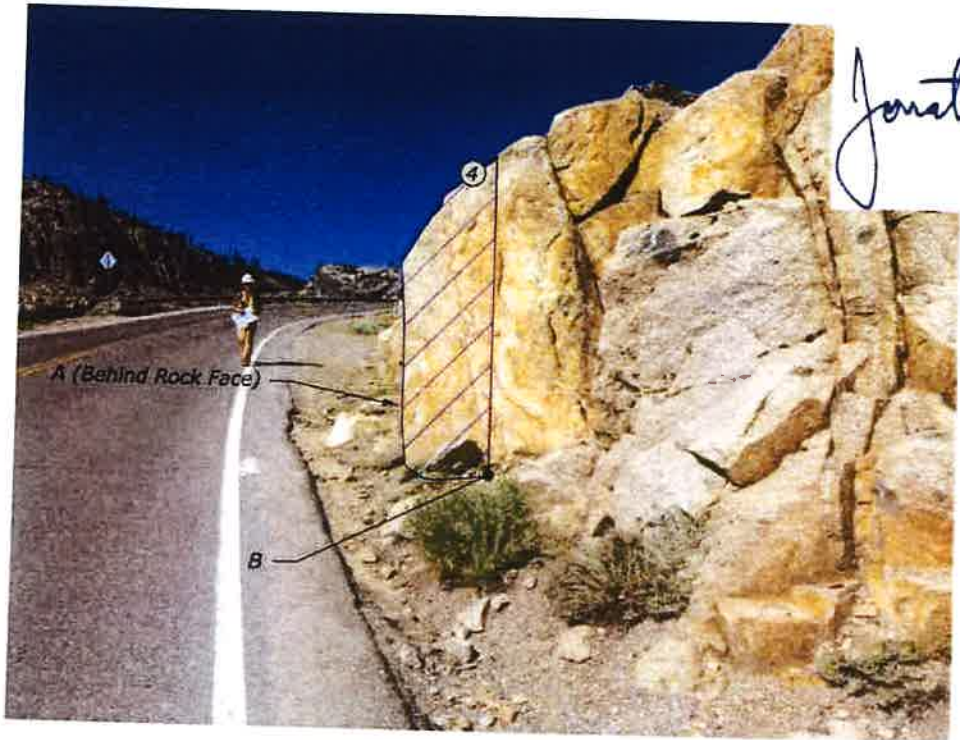
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FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 314+09 TO 314+20
ROCK CUT PLAN**

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G7



ROCK CUT LIMITS
Station 317+85 to 317+95



ROCK CUT LIMITS
Looking Downstation
Station 317+85 to 317+95

LEGEND:



Limits of Rock Excavation by Controlled Blasting

NOTES:

- Limits of rock excavation may vary when directed by CO.
- "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
- "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ④ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
- Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.

STATION 317+85 TO 317+95							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Linear Feet of Presplit Holes (ft)	Material Type
2	--	--	--	3	8	24	Granite

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 317+85 TO 317+95
ROCK CUT PLAN**

No Scale

User: jcravens

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3/13/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	GB



ROCK CUT LIMITS
Station 318+27



ROCK CUT LIMITS
Looking Downstation
Station 318+27

Jonathan Blum

LEGEND:



Limits of Rock Excavation by Controlled Blasting

NOTES:

1. Limits of rock excavation may vary when directed by CO.
2. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
3. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
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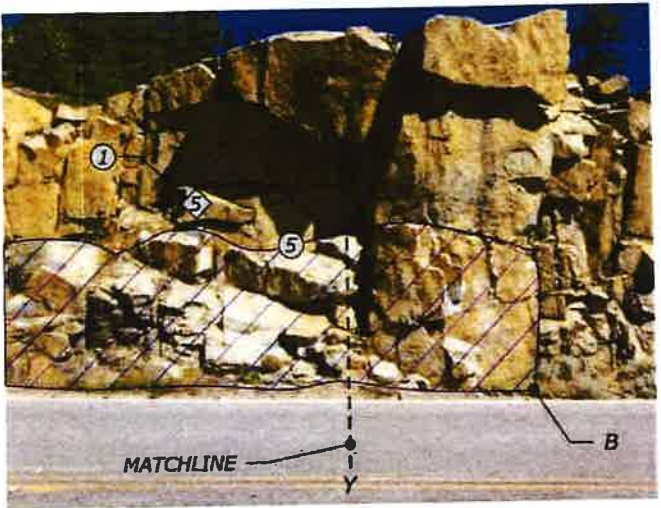
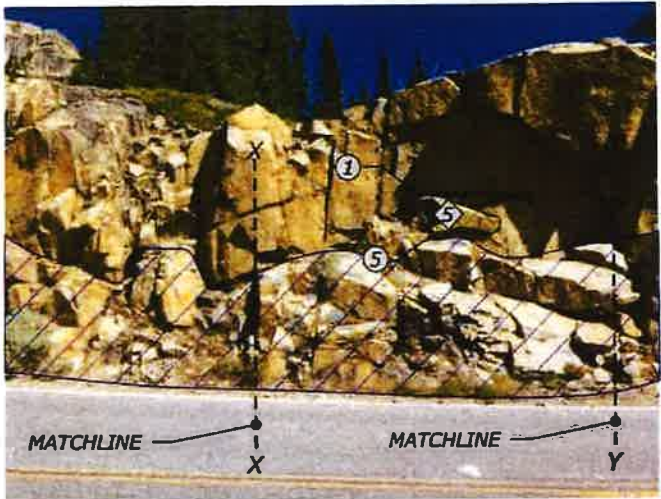
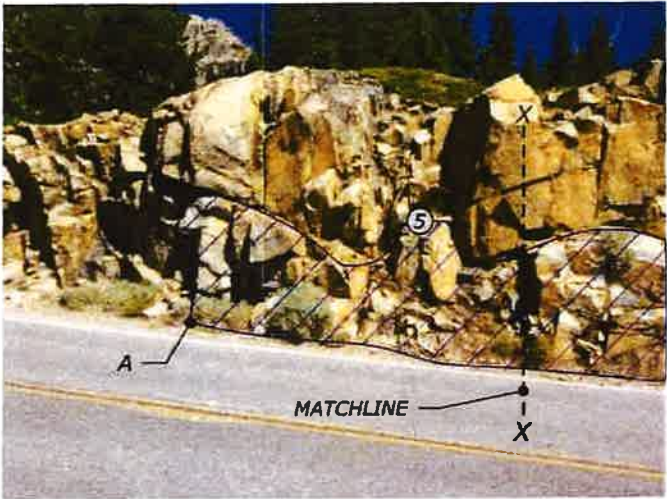
STATION 318+27							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
1	--	--	--	2	3	6	Granite

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

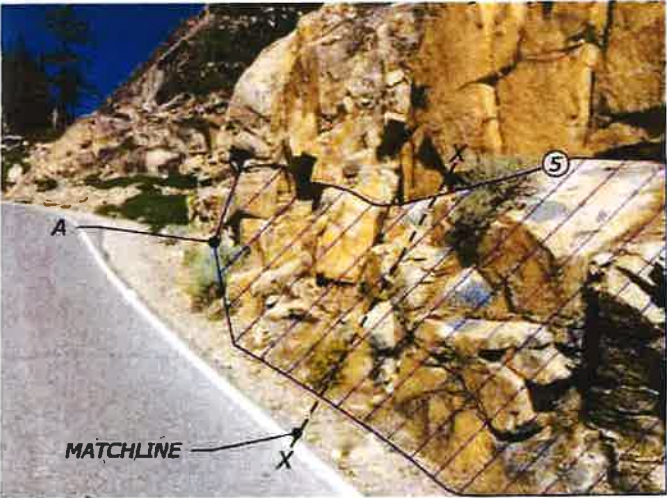
**STATION 318+27
ROCK CUT PLAN**

No Scale

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G9



ROCK CUT LIMITS
Station 322+00 to 322+50



ROCK CUT LIMITS
Looking Downstation
Station 322+00 to 322+50



ROCK CUT LIMITS
Looking Upstation
Station 322+00 to 322+50

LEGEND:

-  Limits of Rock Excavation by Controlled Blasting
-  Limits of Rock Scaling
-  Rock or Block Number

NOTES:

- ① Rock to be inspected for removal by hand scaling techniques and to be removed if directed by the CO.
2. Limits of rock excavation and scaling may vary when directed by CO.
3. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
4. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ⑤ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
6. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.

STATION 322+00 TO 322+50

Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
20	1	1	--	25	6	150	Granite



No Scale

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 322+00 TO 322+50
ROCK CUT PLAN**

User: jcravens

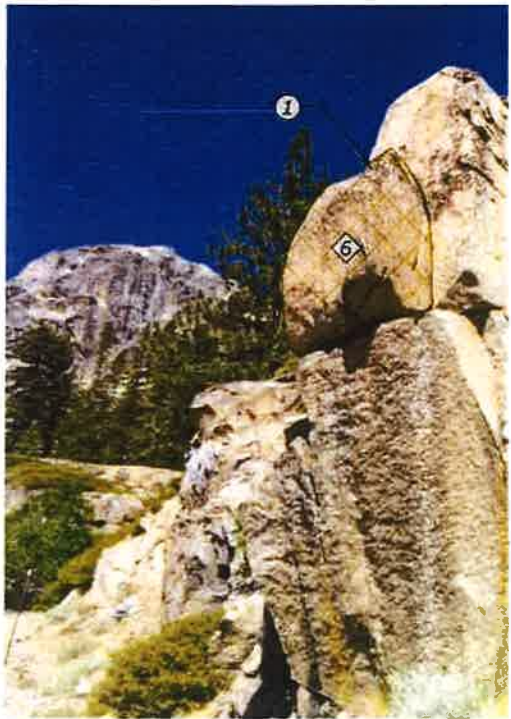
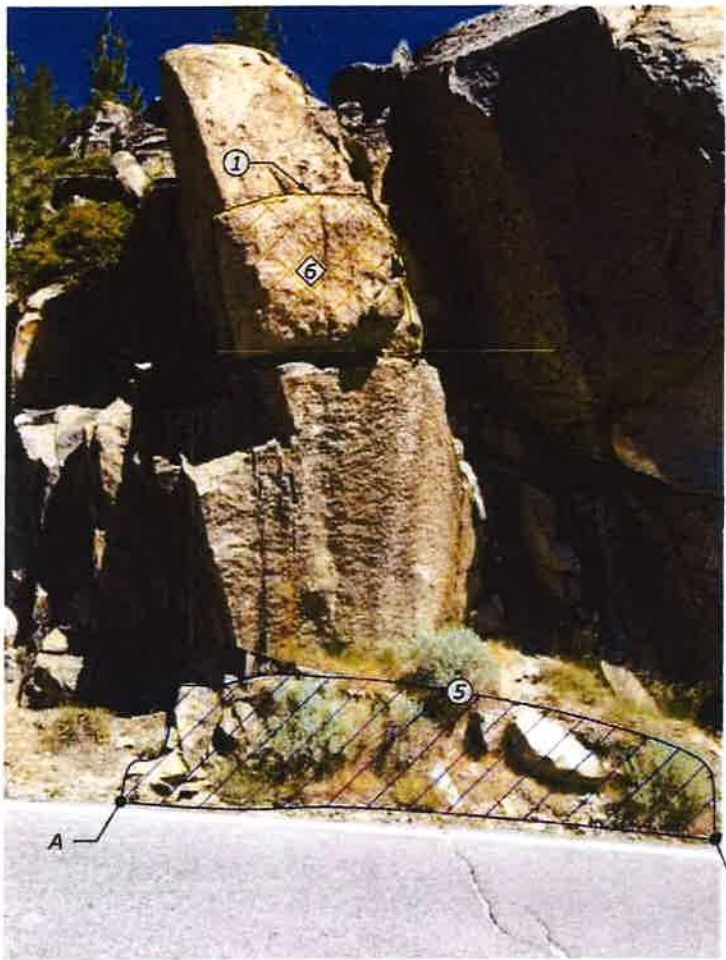
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3/13/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G10

Jonathan Blum

REGISTERED PROFESSIONAL ENGINEER
No. 2012
CIVIL
STATE OF CALIFORNIA



ROCK CUT LIMITS
Station 324+70 to 324+90

LEGEND:

-  Limits of Rock Excavation by Controlled Blasting
-  Limits of Rock Scaling
-  Rock or Block Number

NOTES:

- ① Rock to be inspected for removal by hand scaling techniques and to be removed if directed by the CO.
2. Limits of rock excavation and scaling may vary when directed by CO.
3. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
4. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- ⑤ Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
6. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.

STATION 324+70 TO 324+90							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
3	1.5	1	--	10	4	40	Granite

Rock Dowels installed at 324+60 LT - 10LNFT & 12LNFT

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 324+70 to 324+90
ROCK CUT PLAN**

No Scale

User: jcravens

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3/13/2019



ROCK CUT LIMITS
Station 324+88 to 325+00



ROCK CUT LIMITS
Looking Upstation
Station 324+88 to 325+00

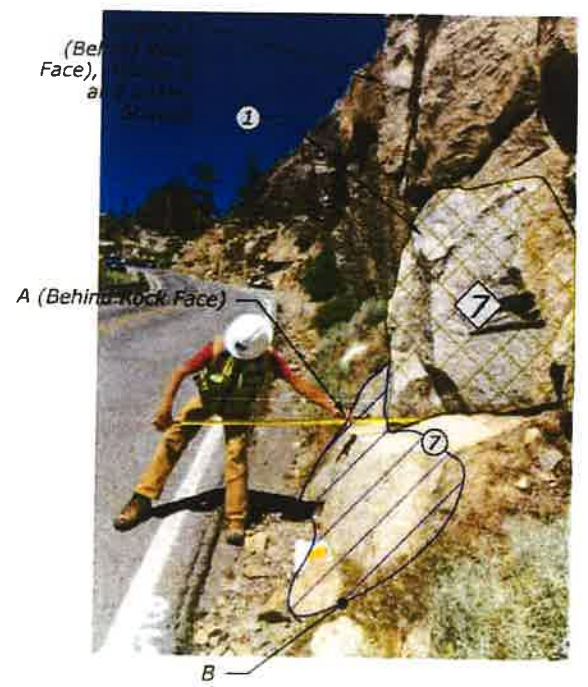


LEGEND:

- Limits of Rock Excavation by Controlled Blasting
- Limits of Rock Scaling
- Approximate Location of Rock Dowel or Bolt
- Rock or Block Number

NOTES:

1. Rock to be inspected for removal by hand scaling techniques and to be removed if directed by the CO.
2. Limits of rock excavation and scaling may vary when directed by CO.
3. Install rock dowel or bolt at location, inclination, and depth directed by the CO.
4. Install additional rock reinforcement if directed by CO to stabilize rock face before starting excavation.
5. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
6. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
7. Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
8. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.



ROCK CUT LIMITS
Looking Downstation
Station 324+88 to 325+00

STATION 324+88 TO 325+00							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
3	1	1	3	6	7	42	Granite

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G11

Jonathan Blum

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

STATION 324+88 TO 325+00
ROCK CUT PLAN

No Scale

User: jcravens

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3/13/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G12



ROCK CUT LIMITS
Station 325+00 to 325+25



ROCK CUT LIMITS
Station 325+25 to 325+50



ROCK CUT LIMITS
Looking Upstation
Station 325+25 to 325+50

LEGEND:



Limits of Rock Excavation by Controlled Blasting



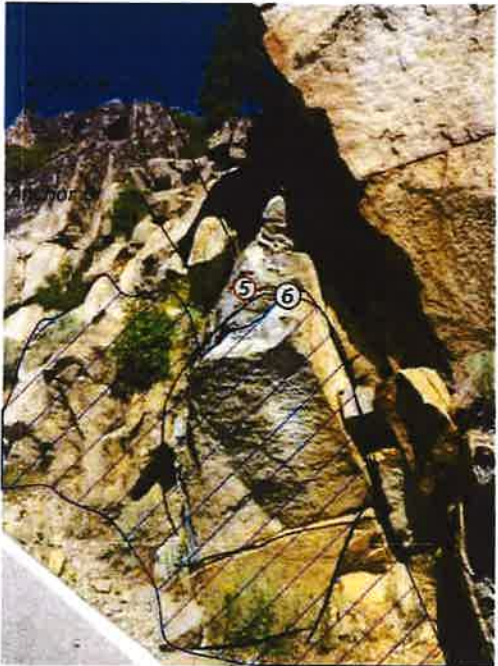
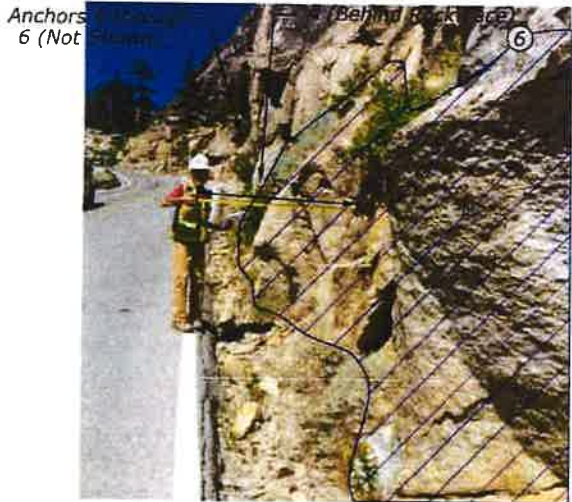
Limits of Rock Scaling



Approximate Location of Rock Dowel or Bolt

NOTES:

- Limits of rock excavation and scaling may vary when directed by CO.
- Install rock dowel or bolt at location, inclination, and depth directed by the CO.
- Install additional rock reinforcement if directed by CO to stabilize rock face before starting excavation.
- "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
- "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
- Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
- Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.



ROCK CUT LIMITS
Looking Downstation
Station 325+25 to 325+50

Rock Dowels installed at 325+18 LT- 8 LNFT

STATION 325+00 TO 325+25							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
4	4	--	--	13	4	52	Granite

STATION 325+25 TO 325+50							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
10	--	--	3	13	8	104	Granite

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**STATION 325+00 TO 325+50
ROCK CUT PLAN**

No Scale

User: jcravens

4:17:37 PM 7: Projects - Grover\217-306 Muller - CFL Donner Pass Rd\1.01 CAD Drawings\Plan Sheets\Rock Cut\217-306 Rock Cut Plans.dgn

3/13/2019

STATE	PROJECT	SHEET NUMBER
CA	CA FLAP 401(1) DONNER PASS	G13



Jonathan Blum

LEGEND:



Limits of Rock Excavation by Controlled Blasting



Location of Rock Dowel or Rock Bolt



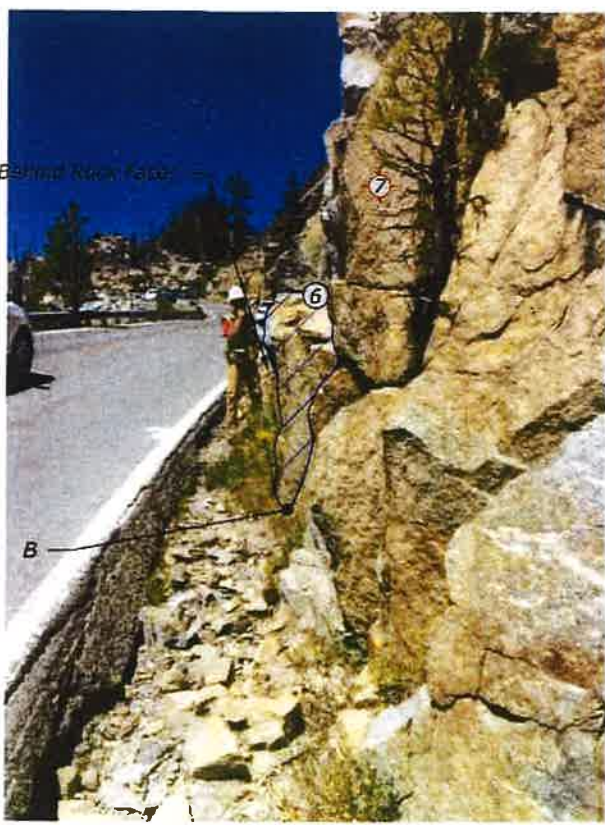
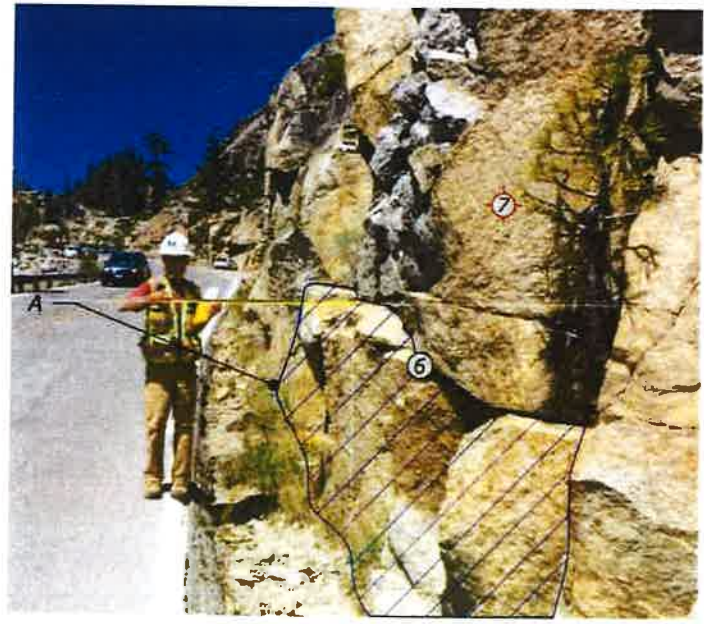
ROCK CUT LIMITS
Station 325+50 to 325+65



ROCK CUT LIMITS
Looking Downstation
Station 325+50 to 325+65

NOTES:

1. Limits of rock excavation may vary when directed by CO.
2. Install rock dowel or bolt at location, inclination, and depth directed by the CO.
3. Install additional rock reinforcement if directed by CO to stabilize rock face before starting excavation.
4. "Field Estimated Excavation Quantity" is the estimated in-place volume of rock before it is removed.
5. "Rock Excavation by Controlled Blasting" includes excavation methods that are suitable for sliver cuts that include controlled blasting, chemical expanders, hydraulic splitters, or methods approved by the CO. These methods must limit disturbance to the rock beyond the presplit lines and rock excavation limits shown on the plans.
6. Drill holes for presplitting at not more than 24 inches on-center along the top of cut lines and as directed by the CO.
7. Presplit holes shall be to a depth of at least 1 foot below finished subgrade at the base of the cut.



ROCK CUT LIMITS
Looking Upstation
Station 325+50 to 325+65

STATION 325+50 TO 325+65							
Field Estimated Excavation Quantity (CUYD)	Estimated Scaling Volume (CUYD)	Estimated No. of Individual Rocks to be Removed	Estimated No. of Rock Reinforcement	Estimated No. of Presplit Holes	Average Depth of Presplit Hole (ft)	Total Lineal Feet of Presplit Holes (ft)	Material Type
3	--	--	1	8	4	32	Granite

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CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**STATION 325+50 TO 325+65
ROCK CUT PLAN**

No Scale